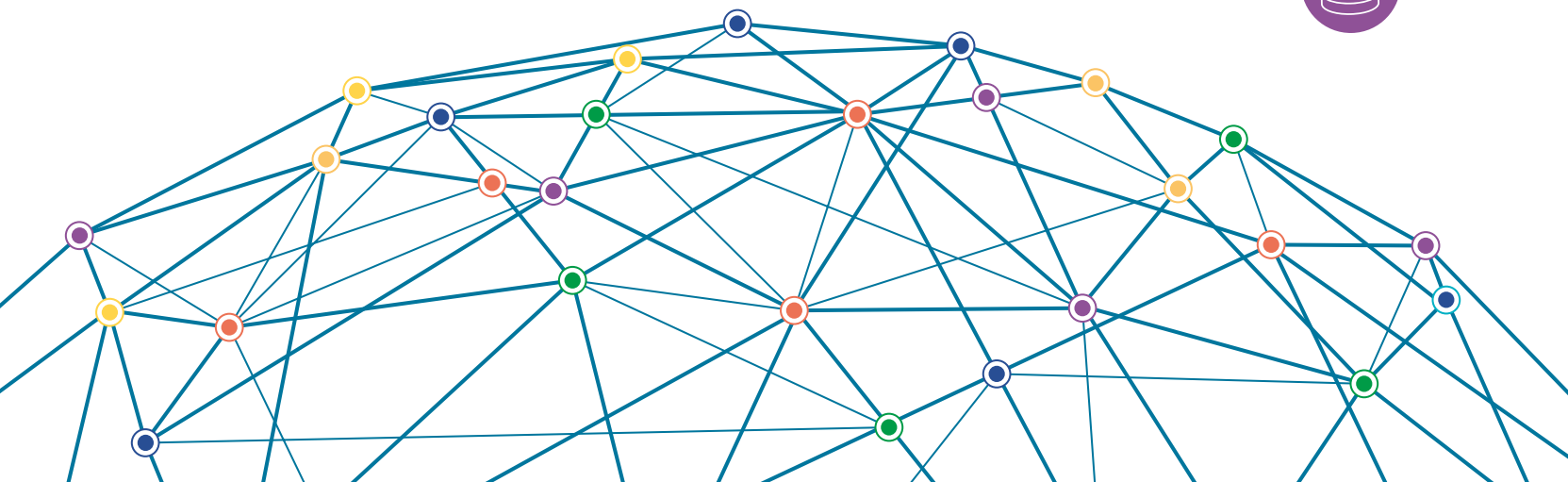# Matrix

flexitron group

SMART **SOLUTIONS** FOR A CHANGING WORLD

VERTICALS BROCHURE

WELCOME TO
MATRIX

Matrix Electrónica is one of the domestic leaders in high-tech products aimed at the industrial and systems integrating markets. Boasting 25 years of experience, our company's new distribution concept enjoys wide acceptance in the Spanish and European markets and a growing presence in the South American market.

■ We stand out for our **friendly and trust-based service**, aligned 100% with the needs of each client.

As part of the Flexitrón Group, we generate efficiency with the supply of electronic components, modules and equipment, backed by the technical support of our team of engineers.

BIENVENIDOS A **MATRIX**

Matrix Electrónica es una de las referencias nacionales en productos de alta tecnología dirigidos a los mercados industriales e integradores de sistemas. Con 25 años de trayectoria, nuestra empresa desarrolla un nuevo concepto de distribución con una excelente aceptación en el mercado español, europeo y con presencia al alza en Sudamérica.

■ Nos diferenciamos por un trato cercano y de confianza, 100% alineados con las necesidades de cada cliente.

Formando parte del Grupo Flexitrón, generamos eficiencia con el suministro de componentes, módulos y equipos electrónicos, apoyados por el soporte técnico de nuestro equipo de ingenieros especializados.

➡ WE ARE YOUR **TRUSTED PARTNER:** TOP BRANDS, COMPREHENSIVE ADVICE AND ENDLESS ADDED VALUES

SOMOS SU **PARTNER DE CONFIANZA:** PRIMERAS MARCAS, ASESORAMIENTO INTEGRAL Y UN SINFÍN DE VALORES AÑADIDOS

Matrix
flexitron group

www.matrix.es

OUR TEAM.
HERE TO LISTEN

At Matrix you can always count on a customer service and technical support team willing to help you in any way you may require. You will enjoy a high level of service to meet and even exceed your expectations.

EQUIPO HUMANO.
LE ESCUCHAMOS

En Matrix podrá contar siempre con un equipo de atención al cliente y soporte técnico dispuesto a ayudarle en todo lo que necesite. Disfrutará de un alto nivel de servicio para satisfacer, e incluso superar sus expectativas.

Customer service

····> A team committed to providing the best service possible and answer all your questions and concerns about the orders issued or the use of our online services.

Sales support

····> We provide you with a network of internal and external sales representatives covering the entire country and a team dedicated to large corporate customers. We focus on managing tailored sales proposals for public and private companies, while providing custom advice to optimise the purchasing process through dedicated solutions.

Technical support

····> A team of product specialists provides dedicated support to our business clients via email or online chat to help them in selecting the right product for their specific needs and find alternative products if necessary.

Atención al cliente

····> Un equipo comprometido con brindarle el mejor servicio posible y responder a todas sus preguntas y dudas sobre la emisión de un pedido o el uso de nuestros servicios online.

Att comercial

····> Una red de ventas internas y externas que cubre todo el territorio nacional y un equipo dedicado a los grandes clientes corporativos. Nos enfocamos en la gestión de propuestas comerciales a medida para empresas públicas y privadas, al tiempo que realizamos asesoramiento personalizado para optimizar el proceso de compra a través de soluciones dedicadas.

Soporte técnico

····> Un equipo de especialistas en producto que presta su servicio exclusivamente para empresas y sólo a través del correo electrónico o chat online, para ayudarle con la selección del producto adecuado para sus necesidades específicas y la búsqueda de productos alternativos.

www.matrix.es

Matrix
Flexitron group

INDEX
ÍNDICE

Our business model has been around for over 25 years and is designed to save you time and money, thanks to our wide range of products and services. This catalogue is just a sample of what you can find at **www.matrix.es**

Nuestro modelo de negocio existe desde hace más de 25 años y está diseñado para hacerle ahorrar tiempo y dinero, gracias a nuestra amplia oferta de productos y soluciones. Este catálogo es sólo una muestra de todo lo que podrá encontrar en **www.matrix.es**

Matrix

www.matrix.es

LINUX COMMUNICATION GATEWAY
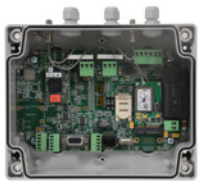
MTXM2M MTX-GATEWAY

› 3G and 4G-LTE versions
› 3 ports RS232-RS485, CAN, Ethernet
› AC-DC, relays. VGA option
› Wifi and 3G or 4G cellular modem
› GPS & Radio cards option

GPS/GLONASS SMART RECEIVER

TRIMBLE ACUTIME

› Antenna and reveiver RS422 interface
› Timing pulse synchronized one sigma
› Stratum 1 time, network synchronization
› Waterproof and corrosion resistant

JAVA PROGRAMMABLE 2G/3G MODEM

MTXM2M MTX-IOT

› 4/5 bands Java Flexible Modem
› GPS/GLONASS option
› RS232 & RS485 ports
› Battery inside
› Ultra Low Power
› RF option

ENCLOSED POWER SUPPLY

ESP-200

› Universal AC input/ full range
› High reliability
› Compact
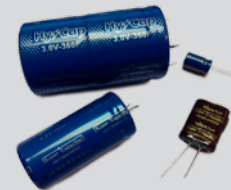› High efficiency; pfc function
› Overload & short circuit protection

THERMAL PRINTER

FTP-639

› Print speed 200 mm/sec
› Thermal head : 100km, 100million lines
› Cutter: 1 million cuts
› Interface USB, RS232C
› Paper hold arm angle can be modified

SUPERCAPACITOR

VEC3R0367QG

› Over 10 times power than batteries
› Reliably in wider temperature -40 to 65°C
› Live over 500,000 cycles.
› Tip. Application: Energy Storage solarcells / backup/ Last gasp

WIFI & COMBO WIFI+BLUETOOTH MODULES

LM821 y LM811

› WiFi 802.11b/g/n y WiFi+Bluetooth 4.0
› SW access point
› Drivers for Linux and Android
› WiFi/Bth coexistence

DEVICE SERVER

IOLAN STS16

› 16 x RS232 Ports on RJ45
› 10/100/1000 Ethernet
› AC power or 48v DC power models
› Virtual COM Multiple OS
› Lifetime warranty

INDUSTRIAL SWITCH

EX89000 SERIES

› Hardened Managed Switch
› Modular design
› 24 FE + 4 GE Ports
› SFP option
› EN50121-4 Certified
› Operating temperatura -40°C to 75°

LTE ROUTER

MTX-ROUTER HELIOS II

› LTE Quad Band module
› 4 x FE Ports
› 1 RS232 or RS485 Port
› Wifi b/g/n (AP mode)
› VPN supported
› Operating temperature -20°C to 70°C

INDUSTRIAL PICO-ITX BOARD

CONGA-PA3

› 3rd generation Intel ATOM /Celeron
› Low Power 5 to 10W TDP
› Extended Tª range available
› RAM and Flash onboard

ARM DUAL CORTEX™-A7 EMBEDDED MODULE

TQMLS102X

› Layerscape LS102xA
› 3xGb Eth, 2xPCIe, 1xUSB 3.0
› IEEE 1588 support
› Extended Tª range

DEAD RECKONING + GPS

› GPS DR receiver
› Giroscope included in module
› 19*19 mm -160dBm
› GPS, aGPS, SBAS, PPS
› NMEA and HIPPO protocols up 10Hz

TRIMBLE AADVARK

HIGH PRECISION GPS RECEIVER

› High accuracy 0.008m
› RTK L1, L2, L5
› GPS, GLONASS, GALILEO, BEIDU
› USB, LAN, 4 RS232 ports
› NTRIP, NTP, 20Hz
› UHF modem integration

TRIMBLE BD930

GPS ANTENNA FOR RUGGED ENVIRONMENTS

› Weatherproof housing
› Filtering for harsh RF jamming environments
› Proven extra rugged, reliable
› Available in 3.3v (TNC) or 5v (TNC or F)
› GLONASS and high gain opt

TRIMBLE BULLET III

Matrix *Flexitron group*   **www.matrix.es**

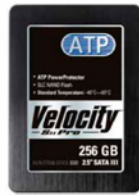## ACTIVE RFID
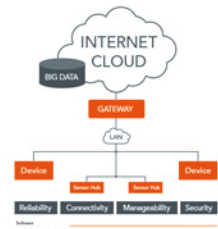
› Tags and sensors available
› Tracking and monitoring applications
› Integrated via multiple protocols
› High range up to 80m adjustable.
› 433MHz Active RFID

SCIEL READER

MEMORY MODULE SSD

› Heavy program/erase application
› Enhanced endurance
› High Performance with SATA interface
› Data protection technology during power failure
› MIL-STD-810G compliant

2.5" SSD IN SLC - VELOCITY SII PRO

BLUETOOTH AUDIO MODULE

› Embedded DSP and audio codec
› HFP/HSP/A2DP/AVRCP profiles supported.
› APTX Support
› AT command configurable
› -20°C to 70°C

LM745

IN-VEHICLE BOX PC

› Intel® Atom™ Bay Trail-I
› -40°C ~ +70°C
› DDR3 4 GB system memory onboard
› eMark, ISO7637, EN50155, EN50121 and IEC60945
› M12 Connectors

TBOX810-838-FL

RAILWAY FANLESS TOUCH PANEL PC

› Sunlight readable 10.4"
› Intel® Atom™ processor E3845 1.91 GHz
› Wide operating temperature: -25°C ~ +70°C
› DDR3 4 GB system memory onboard
› EN50155 certificated
› M12 Connectors

GOT710-837

RAILWAY INDUSTRIAL SWITCH

› Layer 3 Managed
› 8FE+4G/9FE+3G Port
› Wide operating temperature: -40°C ~ +75°C
› 802.3af/802.3at POE+
› EN50155 certificated
› M12 Connectors

AQUAM8512A

IN-VEHICLE USE MONITOR

› Vehicle-grade 7" (16:10)
› Resistive Touch Screen
› Wide operating temperature: -30°C ~ +70°C
› 2 x 2-watt speakers
› EN50155 and EN50121 certificated
› M12 Connectors

TREK-303DH

IN-VEHICLE USE TERMINAL

› Intel® Atom™ E3826 SOC
› 7" WVGA wide-angle
› Wide operating temperature: -30°C ~ +60°C
› CAN, Wifi, Bluetooth, NFC and LTE
› Configurable keys
› Shock and vibration tolerance

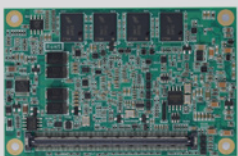**TREK-773**

IN-VEHICLE BOX PC

› Intel® Celeron 2980U / Core i5-4300U
› Operating temperature: -30°C ~ +70°C
› 4 x POE Ports
› 9 ~ 36 VDC
› Shock and vibration tolerance
› UL, CCC, BSMI, E-Mark (E13

ARK-2151V

COM EXPRESS TYPE 10 MODULE

› Intel ATOM E3800
› 2xSATA, 8xUSB 2.0 and 1xUSB 3.0
› Up to 4GB DDR3L onboard RAM
› Extended Temperature range optional

CEM840

ARM CORTEX-A9 MODULE

› i.MX6 processor from Freescale
› Power consumption Typ<4W
› High Graphics performance
› IEEE 1588 support and security functions

TQMa6X

COM EXPRESS® MINI MODULE (TYPE 10)

› Intel® Atom™/ Celeron® Processor
› COM R2.1 Type 10 Mini Module
› Onboard DDR3L and SSD

SOM-7567

www.matrix.es

DIN POWER SUPPLY

› Universal AC input
› Output 24Vcc
› DIN rail TS35 / 7.5 or 15
› Protec: SCP, OLP, OVP.
› High oper Temp to 70°C
› UL508 (Ind. ctrl equipment)
› UL1310 Class 2 power unit

DN-100-24

OPTICAL SENSORS

› Based on Infrared light
› Analog, digital outputs
› Non-contact sensing
› Motion or position sensing
› Custom and standard solutions
› Distanc. range 1 to 762mm

OPB300

JAVA PROGRAMMABLE 2G/3G MODEM

› Industrial Featured M2M Modem
› Optocoupled input/outputs
› RS232-RS422-RS485 ports
› AC-DC and internal battery
› IP65 housing
› RF option (BT,GPS,Zigbee,Wavenis)
› Internal or external antennas

MTXM2M MTX-IND

RUGGED TABLET COMPUTER

› 7 inch capacitive, sunlight readable
› Win 7 Embedded
› Intel Atom 1.6Ghz, 4GB RAM + 128M FLASH
› GPS 2-4 m accuracy
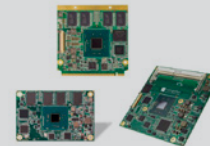› 3.75G Data modem
› Bluetooth and Wi-Fi
› IP65 and MIL-STD-810G

TRIMBLE YUMA II

FANLESS BOX PC

› Intel® Atom™ E3827
› -40°C ~ 70°C
› 4 Expansion Slots
› Relay Output, Isolatec COM
› Digital and Analogue IOs

rBOX800

MÓDULOS COM EXPRESS Y QSEVEN

› COM Express (tipo 6 y 10) y Qseven
› Intel ATOM E3800 y Celeron
› Soportan TODOS los SoC de la familia E3800
› Rango de temp. industrial (-40°C a +85°C) opcional
› Bajo consumo (<10W) y bajo coste

CONGA TCA3/ MA3/QA3

MÓDULO ARM DUAL CORTEX™-A7

› Procesador Layerscape LS102xA de Freescale
› 3xGb Eth, 2xPCIe, 1xUSB 3.0
› IEEE 1588 support
› Extended Tª range

TQMLS102X

PANEL PC

› 15" XGA TFT LCD touch display
› Intel® Core™ i7/ i5/ i3
› 2 x PCIe x8 or 2 x PCI slots
› Built-in speakers and Wifi
› IP65 Front Bezel design
› Windows and Linux

P1157E-871

HARDENED MANAGED SWITCH

› 12 x 10/100/1000 BASE-TX (8 x PoE port)
› 4 Gigabit SFP ports
› -40°C to 75°C
› Redundant power inputs: 52 - 57VDC
› Aluminum Case

EX78900

WIFI DEVICE SERVER

› IEEE 802.11 a,b,g,n
› Gigabit Ethernet
› Dual Band 2.4GHz/5GHz)
› Up to 4COM
› -40°C to 75°C
› 9 - 30VDC

IOLAN SDS W

PROFIBUS DP-V0 TERMINAL

› 3000VDC isolation protection
› Rs-232 Port
› 8 Channel Analog IO
› -25°C to 75°C

PROFI-5017

1, 2, 4, 8 OR 16 PORTS SERIAL CARD

› 1, 2, 4, 8 or 16 port serial card
› Universal PCI / PCI-X
› RS232, RS422, RS485
› DB9, DB25, RJ45 connectors
› Solaris, SCO Unix, Windows, Linux OS Drivers

UltraPort PCI

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FANLESS DIN-RAIL PC

› ATEX & CID2 anti-explosive certification
› Intel® Atom™ processor E3827
› Isolated RS-232/422/485 ports
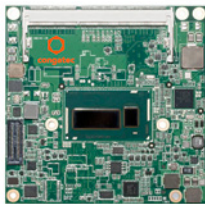› 2 isolated 10/100/1000Mbps Ethernet
› DIN Rail mounting kit

RBOX510-6COM

THIN MINI-ITX INDUSTRIAL BOARD

› Next generation Intel Celeron and Pentium processor
› Very thin profile for compact designs
› Burst Technology
› Long life components for 24/7 embedded use

CONGA IA4

COM EXPRESS TYPE 6

› Intel iCore de 5ª generación
› Máximo rendimiento en tamaño compacto
› consumo 15W TDP
› Rango Tª industrial opcional

CONGA TC97 / CEM881

Scan this QR and get extra info about this products

Amplíe información sobre estos productos escaneando el siguiente código QR

GAMING & VENDING

ENCLOSED POWER SUPPLY

› Universal AC input/full range
› Overload/Short circuit
› Compact,High efficiency, High reliability
› 100% full load burn-in test

EPR-75

MEMORY MODULE – SATA

› Interface SATA III 6 Gb/s
› Industrial Grade Embedded
› Advanced Wear Leveling,
› AutoRefresh and PowerProtec. technology
› Ultra high performance solution
› Operation Temperature -45°C to +85°C
› MTBF @ 25°C >5,000,000 hours

AF8GSSHI-VACXP

RFID MODULES

› SmartCard Reader/Writer
› Contactless RFID interface &
› Integrated contact card reader/writer
› Supported the ISO/IEC7816
› Integrated chip card reader.
› Worldwide Certifications: CE (Europe), FCC (USA)

TWN4

LINUX CORE COMPACT GATEWAY

› M2M and IoT gateway
› ARM processor
› Wifi and 3G or 4G cellular modem
› 3 serial ports, CAN, Ethernet
› GPS option

MTXM2M MTX-GTW

DUAL SIGFOX/LORA MODULE

› Dual protocol support Sigfox and LoRawan
› Very long range and low power consumption

MM002-XX-EU

MULTIPROTOCOL PLC CHIP

› Supporting PRIME, G-3, IEEE 1901.2, propietary
› Robust communication up to 500kbps
› Configurable operation chanel from 5-500Khz

SM2400

MINI ITX BOARD

› AMD Embedded R-Series SOC
› 4K resolutions
› Support 3 simultaneous display
› 6W stereo audio amplifier
› Windows® 7/8.1/10 & Linux kernel 3.0 above

GMB130

OPEN FRAME PANEL PC

› 17" SXGA TFT LCD display
› Intel® Celeron® processor J1900
› Touchscreen optional
› Dual PCIe Mini card slots

FDK172-834

MINI ITX BOARD

› Intel® Core™ i5-5350U/ i3-5010U
› Low profile
› 204-pin SO-DIMM up to 16 GB
› Realtek ALC892 supports 7.1
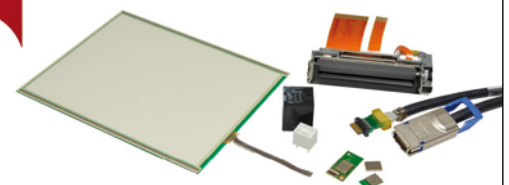› Tri display for eDP/LVDS, DP/HDMI, and DP++

AIMB-231

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FUJITSU

Quality Relays, Touch Panels, Thermal Printers, Wireless Modules and Connectors

emea.fujitsu.com/components

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PICO ITX ARM SBC

› Freescale ARM Cortex-A9 i.MX6
› 2.5" Size
› full HD 1080p HDMI 1920x1080
› Single Channel 18/24 bit LVDS
› Dual mini-PCIe for WIFI/3G support
› Multiple OS support in Linux/Android

RSB-3410

MINI ITX BOARD

› Mini ITX form factor
› GX-412HC 1.2 – 1.6 GHz Quad Core
› Radeon™ HD 8210E 300MHz
› 2 x SO DIMM Socket (1.5V / 1.35V), max. 16GB
› Realtek ALC 671, 5.1-channel
› DC-IN 12V

D3313-S5

3,5" FORM FACTOR ARM SBC

› Freescale iMX 6Q/6D Quad or Dual-Core
› 1GB/2GB DDR3 RAM
› supports I²C, GPIO, CAN Bus
› 9V ~ 36V wide range
› Mini PCIe slot with SIM socket
› Android 4.2 / Ubuntu 12.04

SBC2100

THIN MINI-ITX BOARD

› 5th generation Intel iCore
› Highest performance
› Improved Graphics Performance up to GT3 HD6000
› Wide Range Power Input 12-24 Volt
› congatec embedded Board Controller Features

CONGA-IC97

COM EXPRESS MODULE

› 2nd generation AMD G-series
› Single chip quad core up to 2GHz
› Outstanding graphical performance
› Power efficient
› Low cost

Conga-TCG

ARM CORTEX-A9 MODULE

› with i.MX6 processor from Freescale
› Compact module with low power consumption
› 3D and HD graphics support
› Ideal for last generation vending machines

TQMA6X

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Matrix
Flexitron group

3.5" FORM FACTOR SBC

› Intel® Celeorn® J1900
› 2 x DDR3L SO-DIMM up to 8GB
› 4 x USB 3.0 Ports
› 2 x MiniPCIe slots
› Operating temp. -20°C ~ +70°C

CAPA843

EMBEDDED PC

› Intel Quark x1000 Single core 400MHz
› On-board DDR3 800MHz 512MB & 4GB eMMC NAND flash
› Support 4 GPIO and 1 UART
› Support 2x 10/100 Ethernets and 1x MiniPCIe sockets
› Yocto Linux

UBC-221

INTELLIGENT 7" TFT DISPLAY

› Capacitive or Resistive touch
› 800x480 DOTS, 16-BIT COLOR
› 8MB ON BOARD FLASH
› RS-232, I²C-BUS OR SPI-BUS
› Easy programing

EA EDIPTFT70-ATC

PANEL PC

› 15.6" WXGA wide screen TFT
› Capacitive or Resistive touch
› Intel® Celeron® Processor J1900
› IP65 front bezel
› Fanless design
› Windows and Linux OS

GOT5153W-834

POWER OVER HDBASET (POH)

› 88W PD module
› Small size PoE PD half brick
› Compatible IEE802.3af-at

SILVERTEL AG5600

GPRS JAVA MODULE

› PoE extractor
› 12Watts 3.3-5 and 12V output
› Industrial temp with Class
› Small package compatible with PoE+
› Compatible IEE802.3af

GEMALTO CINTERION BGS5

ISOLATED POWER OVER ETHERNET (POE)

› Industrial M2M IoT module
› GSM-GPRS class 12, 4 bands
› Java programmable
› Embedded TCP/IP Stack
› USB, GPIO, 2 UARTS

SILVERTEL AG9700

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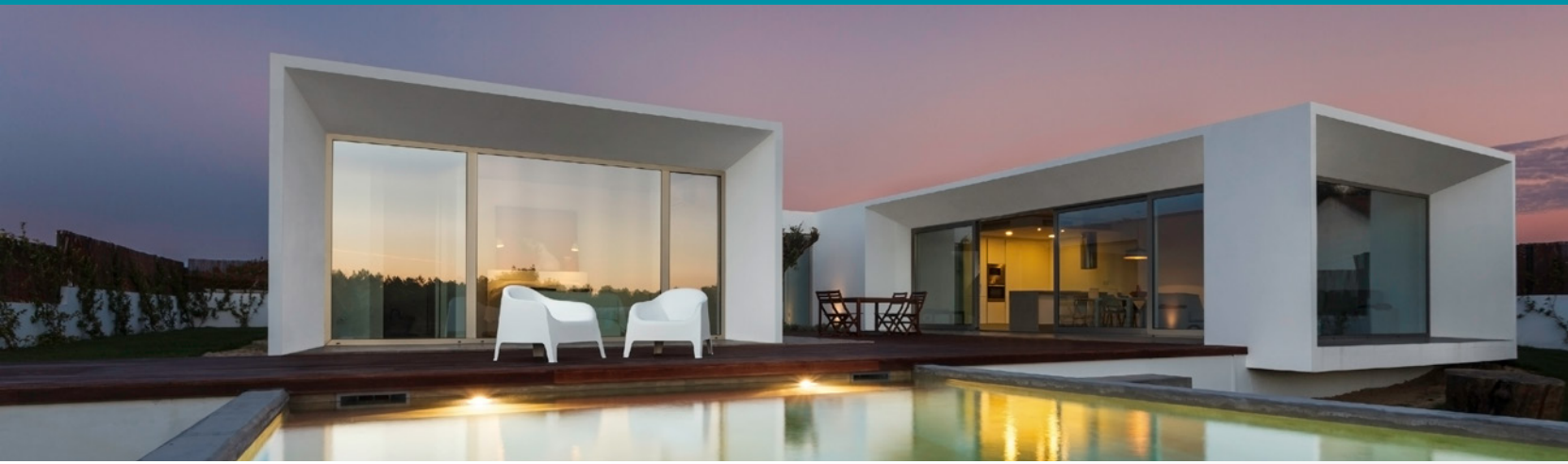
ANTENNAS

› Wide range of frequencies
› 2G/3G-UMTS/4G-LTE/ Wi-Fi/GPS
› Mounting options Screwed/Magnetic/ Stub/Yagi..

ANTENNA

SENSORS

› Temperature/HR sensors
› Communication via RS232 and RS485
› Range of measurement -55 to 125ºC
› Mounting indoor and outdoor

Tª & HR SENSORS

LONG RANGE RF MODULES AND SENSORS

› Up to 1Km range LOS
› Very low power consumption
› Mesh Networking
› very reliable communication

WAVENIS

TQ - Your fast track to Embedded Solutions

ARM solutions – innovative, leading

x86 solutions – flexible, scalable

ARM Cortex™-A8
module TQMa335x with Sitara™ AM335x from Texas Instruments

ARM Cortex™-A9
module TQMa6x with MCIMX6 from Freescale

ARM Dual Cortex™-A7
module TQMaLS102x with Layerscape LS102x from Freescale

Intel® Atom™ E3800
module TQMxE38M

Intel® Core™ 5000U
module TQMx50UC

Intel® based
hardwarekits and devices

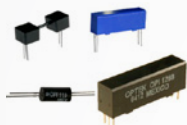**TQ-Group** | www.tq-group.com

Technology in Quality

ANTENNAS

› External Mounting
› Connector N M
› Frequencies 800/900 1800/1900/2100MHz
› Average Gain 7dBi
› Polarization Vertical
› Power 50W
› Low lost RF cable N F to SMA M

ANTENNA OMNI FIBERGLASS

OPTOISOLATOR

› Isolation from 6kv to 50kv
› Creepage dist. 32 to 100mm
› Temperature range -50 to +100 ºC
› IP65 (Dust & Water Proof Level)
› ATEX / IECx (Non-Ignition Source)

OPI1268

INVERTERS

› Pure sine wave output
› Input & output fully isolation
› Controlled cooling fan
› ProtecTIONS: Reverse Polarity Under Voltage / Over Voltage
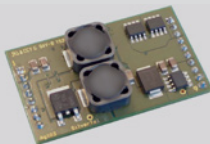› Short Circuit / Overload-Temp.
› E13 / UL / CE / FCC approved

SP-1000

INTELLIGENT BATTERY CHARGER

› Maximize battery life
› Reduce Power Consumption
› 12V Sealed lead 1.2-7Ah capacity
› UPS with few components

SILVERTEL AG102

SOLAR PANEL BATTERY CHARGER

› Low Power Consumption
› Solar Panel power source up to 50W
› Battery 12V 1.2-7Ah

Silvertel Ag103

2G-3G JAVA EMBEDDED DIN RAIL MODEM

› Din Rail mounting
› Terminal block
› RS232-RS422-RS485 ports
› Optocoupled Input&Outputs, Analog inputs
› USB, Relays

MTXM2M MTX-DIN

3G HSPA - 4G LTE MODULE

› HSPA/LTE module
› Voice, TCP-IP stack
› Diversity Antenna
› GPS/GLONASS receiver
› USB Win&Linux support.
› GPIO and UART

GEMALTO CINTERION PHS8-PLS8

LONG RANGE RF MODULES AND I/O DEVICES

› Up to 1Km range LOS
› Very low power consumption
› Mesh Networking
› very reliable communication

WAVENIS

PLC MULTIPROTOCOL CHIP

› Supports PRIME, G3, IEEE 1901.2 and custom
› Specifically targeted for: solar panel micro-inverters
› smart LED controllers
› other Grid-connected devices

SM2480

Scan this QR and get extra info about this products

Amplíe información sobre estos productos escaneando el siguiente código QR

AXIOMTEK

IC0300 & Intel Gateway Solution

A powerful Combination to IoT Success Compact, rugged, fanless and Wide-temperature

For more information please contact us at: sales@axiomtek.eu or visit www.axiomtek.com

Matrix flexitron group

www.matrix.es

ELECTRIC SUBSTATION IPC

› Intel® Atom™ processor N2800 1.86 GHz
› IEC 61850-3 and IEEE 1613 certified
› Isolated COM, LAN, CANBus and DIO ports
› 100~240VAC and 134 ~ 240VDC

IPC122-833-FL

FLEXIBLE MODULAR DESIGN SWITCH

› Supports up to 28 gigabit fiber/copper ports
› IEC 61850-3 and IEEE 1613 certified
› Supports GPS module, IRIG-B module
› PTP over E1/T1 module
› HSR/PRP module

SICOM3028GPT

TIME SERVER

› IEC61850, IEC60870, DNP and SNMP
› BDS (Beidou Satellite System)
› GPS, IRIG-B, TOD, PTP
› Time adjustment step up to 200ns/s
› Dual power supplies (3U)

PTS-10/30

TERMINAL SERVER

› 8, 16 and 32 serial ports on RJ45
› Dual 10/100/1000 Ethernet
› IEC 61850-3 and IEEE 1613
› Low Voltage 24v DC /48v DC
› Universal high voltage
› Modbus Gateway

IOLAN SDS HV/LDC

MEDIA CONVERTER

› 10/100BASE-TX to 100BASE-FX
› IEC61850-3/IEEE1613 Certification
› -40°C to 75°C
› Dual 10/100/1000 Ethernet
› Link-Fault-Pass-Through (LFPT)
› Long distance up to 40Km

EL1141 Series

INDUSTRIAL SWITCH

› 16-port Manage Switch
› IEC61850-3/IEEE1613 Certification
› -40°C to 75°C
› SFP Option
› Ring topology protocols
› Redundant power input

EX83000 SERIES

PROGRAMMABLE AUTOMATION CONTROLLER

› Linux 2.6.29 computing platform
› ATMEL AT91SAM9G20, 400MHz
› Analog input: 4x,16-bit A/D, multiplexed
› Digital input: 4 x 2500Vrms opto-isolated
› Digital output: 4 x 500mA max. driving current
› Ethernet: 2 x 10/100Mbps
› Power input: 9~40VDC

PAC-4070

MÓDULO EMBEBIDO ARM9

› Very low power consumption (<1W)
› strongly reliable and tested
› Industrial temperature range
› IC61850 stack support

TQMA28

MÓDULO ARM DUAL CORTEX™-A7

› Layerscape LS102xA from Freescale
› 3xGb Eth, 2xPCIe, 1xUSB 3.0
› IEEE 1588 support
› Extended Tª range

TQMLS102X

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Choose EtherWAN—When Connectivity is Crucial...

EtherWAN Systems Inc. is a leading manufacturer of Hardened Ethernet, PoE, and Fiber connectivity products specifically designed for harsh and demanding environments. Founded in 1996 in Irvine CA, EtherWAN specializes in the designing and manufacturing of Ethernet Switches, Media Converters, Ethernet Extenders and Power over Ethernet products for applications where connectivity is crucial. With our core focus on Ethernet connectivity for extreme environments with stringent requirements product reliability and quality are top priority. EtherWAN's product development, engineering, manufacturing and quality assurance processes are structured to push the limits of stated specifications resulting in products that continually exceed expectations. Our goal is to provide quality reliable products for extreme applications, markets, and environments.

EtherWAN Systems, Inc. US headquarters is located in Anaheim, CA, USA with Pacific Rim headquarters and manufacturing in Taipei, Taiwan. With sales, marketing and engineering expertise on both sides of the Pacific Ocean and its own production lines in Taiwan, EtherWAN combines the highest quality products with professional support using the most advanced Ethernet technology resulting in systems that just work.

EtherWAN

—Featured Products—

- Hardened, Industrial, and Commercial
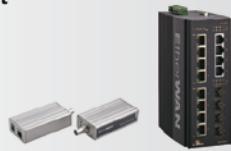- SC, ST, and SFP options available
- Managed, web-smart or unmanaged

Ethernet Switches

- Ethernet extension over Coax or Copper pair
- Power over Link™

Ethernet Extenders

- 60W High-power PoE Switches
- IEEE802.3 at/af compliant
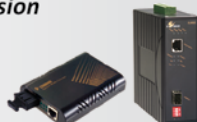- PoE Media Converters
- PoE Ethernet Extenders

PoE Solutions

- Protect your valuable network eqipment
- Pass-through data via RJ45
- Pass-through data via RJ11
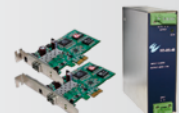- Compatible with Gigabit and PoE products

Surge Protectors

- Gigbit or Fast Ethernet
- Copper-to-Fiber media conversion
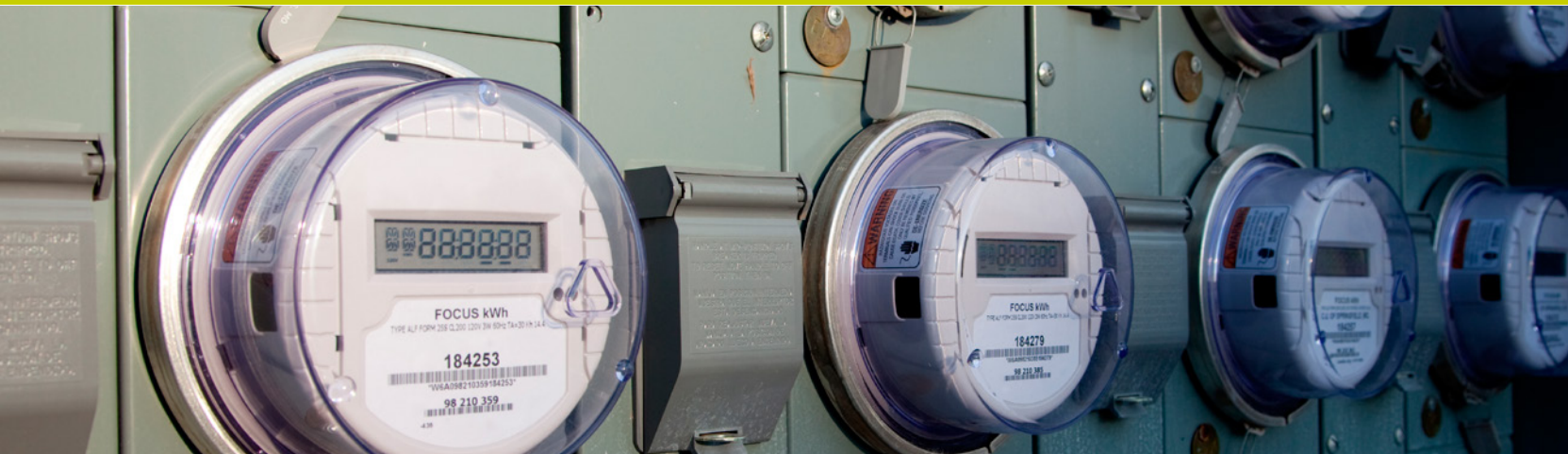- Fiber-to-Fiber media conversion

Media Converters

- Network Interface Cards
- Industrial power supplies and adaptors
- SFP fiber tranceivers
- Mounting kits

Accessories

www.EtherWAN.com

Matrix Flexitron group **www.matrix.es**

CHARACTER OR GRAPHIC DISPLAYS

› Extemely compact from 2.0 mm width
› SPI, I²C or 4-bit, 8-bit
› 3.3V or 5V
› -20 - +70°C

DOGM DISPLAY

LORA & SIGFOX DEVICES

› Very long range
› Embedded modules with dual protocol stack (Sigfox/LoRawan)
› configurable with AT commands
› Pulse to Wireless M-bus converters, sensors, etc.

WIRELESS M-BUS DEVICES

› Embedded modules in 169Mhz and 868Mhz
› configurable with AT commands
› Pulse to Wireless M-bus converters
› Repeaters supported

RS-485 BUS REPEATER

› Automatic or manual baud rate
› 2-way 2500 VDC Isolation Protection
› Compact design
› Din rail or wallmount
› -25 °C to +75 °C

TM-7510U CR

JAVA COMPACT 2G MODEM

› Java programmable
› 4 bands GSM GPRS class 12
› 1 RS232 + 1 RS485, GPIO
› Serial-2G Tunnel, Modbus TCP
› Metering features -CSD-

MTXM2M MTX-65I-RS485

ANTENNAS

› Frequencies 800/900/1800/1900/2100MHz
› Average Gain 2dBi
› External Mounting IP64
› Connectors SMA/FME/MMCX and others
› Cable RG174U

ANTENNA ESFERA

CONNECTORS

› Complete range of connector
› High quality products
› Mini PCie Socket
› SIM Card
› RJ45 Connectors
› D_Sub Connectors
› USB Connectors

elster

Our WaveTalk solution is a bi-directional battery-operated radio repeater, operating at 868 MHz, with a 25 and/or 500 mW transceiver, conforming to IP68 with low energy consumption.

Our WaveLog solution is a bi-directional battery-operated data logger, operating at 868 Hz, conforming to IP 68 with up to 4 pulse inputs / 4 pulse outputs, low energy consumption operation and a service life of more than 10 years.

WaveCard:
The ready-to-use Wavecard OEM board provides you with an easy plug-in solution for bringing Wavenis-based M2M and WSN products to market in record time. Wavecard boards are available with either 25 mW or 500 mW power output, depending on your range requirements (up to 4 km with a 500 mW board).

Wavecard OEM boards enable manufacturers and integrators to develop state-of-the-art wireless products that meet the connectivity and autonomy requirements of a wide variety of M2M and telemetry products in which low power consumption and long wireless range are key factors.

www.elstermetering.com

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ELECTRIC POTENTIAL INTEGRATED CIRCUITS

› EPIC Ultra High Impedance ECG Sensor
› Noncontact electrometer
› Ultra high input resistance (2x10^10 Ohm)
› Dry-contact capacitive coupling
› Input capacitance as low as 15pF
› Lifestyle sports and health products

PS25102

THERMAL PRINTERS-MOBILE

› Print speed 85 mm/sec
› Resolution 300 dpi
› Paper width variable 70 - 115mm
› Delivers crisp/ bar code labels, others.
› Comm: USB, RS-232C & Bluetooth

MPU-L465
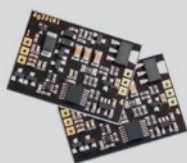
ENCAPSULATED POWER SUPPLY

› Medical power supply
› PCB Mounting
› Fully Encapsulated Plastic Case
› Input Range 90-264VAC, 47-63 Hz
› Regulated Output and Low Ripple and Noise
› Isolation Class II
› CE, CB, UL, CUL, Approvals

MSC-24S
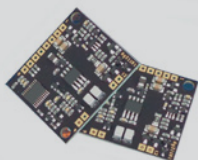
WIRELESS POWER RECEIVER

› Qi compliance
› No electricals contacts.
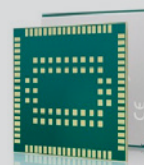› Up to 5 Watts Output Power
› Overload and short circuit protection

SILVERTEL AG301

WIRELESS POWER TRANSMITTER

› Qi compliance
› No electricals contacts.
› Low standby power consumption
› Overload and short circuit protection

Silvertel Ag311

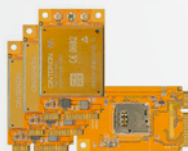## COMBI HSPA+GPS/GLONASS MODULE

› JAVA programmable
› 3G 5 bands, GSM 4 bands
› Embedded TCP/IP Stack
› USB, GPIO, 2 UART
› Low power
› Battery operation

GEMALTO CINTERION EHS8

MINIPCIE 3G-4G BOARDS

› 3G-HSPA/HSPA+
› 4G-LTE multibands
› Gemalto Cinterion EHS5/6,PHS8,PLS8 based
› Digital Voice. GPS option
› MicroSIM card holder

MTXM2M MINIPCIE

WIFI AND WIFI+BLUETOOTH MODULES

› USB interface with host
› Drivers for Linux and windows
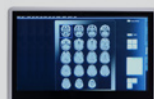› Support for client, AP and Monitor modes
› Bluetooth 4.1 in LM811 combo

LM821 & LM811

BLUETOOTH 4.1 MODULES

› Very low power consumption
› Programable
› LM931 BLE embedded stack
› LM951 Bluetooth 4.1 dual module with embedded stack
› RS232 interface

LM931 & LM951

MEDICAL GRADE PANEL PC

› 24" FHD TFT LCD
› 4th Generation Intel® Core™
› 2 x 204-pin DDR3L-1600 up to 16 GB
› Front Camera
› Windows® 7, Windows® 8.1
› EN60601-1 and CE certified

MPC240

MEDICAL GRADE TABLET PC

› Pocket-size solution fits in your hand
› 7" HD LCD with P-cap Multi-Touch
› Intel® Atom™ Bay Trail-T processor
› Windows 8.1 Industry Pro
› IP54 enclosure
› Barcode and cameras

MICA-071-A11-A1E

MEDICAL GRADE TOUCH LCD MONITOR

› 22" TFT 300 nits WSXGA+ LCD
› IP67 Front bezel
› 2W Stereo Spearkers
› Bluethooth and camera optional
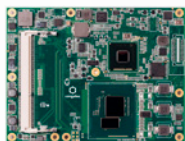
MMT225

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EMBEDDED SBC

RSB-3850

› Intel Quark x1000
Single core 400MHz
› On-board DDR3
800MHz 512MB
› Support 4 GPIO and
1 UART
› Support 2x 10/100
Ethernets and 1x
MiniPCIe sockets
› Yocto Linux

COM EXPRESS TYPE 6MODULE

CONGA-TS97

› 5th generation Intel iCore
processors
› Highest performance,and
great graphics
› Performance for high-end
medical devices

ARM CORTEX-A8 EMBEDDED MODULE

TQMA335X

› Graphic acceleration
available
› Small form factor
› Competitive price
› Ideal for latest generation
professional fitness
machines

PROJECTED CAPACITIVE TOUCH PANELS

PCT PANEL

› 7 – 21" PCT Touch Panels
› Up to 10 fingers
› Transparent, black or white bezel
› USB, I2C and RS232 interface
› TFT integrated
› Customized bezel and glass

E-PAPER

EPA20-A

› 2.4V – 3.3V
› 172X72 DOTS
› SPI Interface
› 4 Grey lvels

Q7 MODULE

Conga-QG

› AMD 2nd generation G-series
› Compact size 7x7
› Great graphics performance
› Low power consumption
› Ideal for portable medical
devices

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GSM-GPRS 2-4 BANDS MODULE
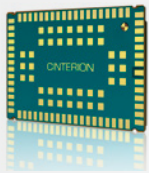
› Industrial featured 2G module
› Full Voice support, TCP-IP stack
› Highly compact size
› Can store voice prompts
› RLS jamming detect

GEMALTO CINTERION BGS2

LINE INTERFACE CIRCUIT

› SLIC-FXS. FXO compatible
› Single 3.3 to 5V supply required
› 2/4 wires conversion
› Tip-Ring polarity reversal
› On board Ring generator

SILVERTEL AG1171

RFID READERS & WRITERS

› Indoor and outdoor applications.
› Small form factor
› Operates at +5 to +31.5 dBm
› Long read range (30 ft)
› RFID tag read rate: 750 tags/second
› Wi-Fi network connectivity
› AEPC global Low Level Reader Protocol (LLRP) v1.0.1

MERCURY 6

REDUNDAN POWER SUPPLY FOR RAID

› Hot swap power module operation
› Cero transfer time when backup-
› Power fail and fan fail alarm
› Support dual motherboard system.
› Use DIN41612 industrial connector
› Meet Intel ATX 2.01/2.03/ ATX 12V

RAM-2805P

BLUETOOTH 4.1 MODULES

› Very low power consumption
› Programable
› LM931 BLE embedded stack
› LM951 Bluetooth 4.1 dual module with embedded stack
› RS232 interface

LM931 & LM951

ARM9 EMBEDDED MODULE

› Smallest module in the market
› Very low power consumption (<1W)
› strongly reliable and tested
› Industrial temperature range

TQMA28

ETHERNET AND POWER EXTENDER

› 10/100 Mbps Ethernet
› IEEE802.3af PoE over Coaxial
› Power over Link
› Up to 180m
› Date rate up to 100Mbps

ED3238

FANLESS BOX PC

› 4th Generation Intel® Core™ i7/i5/i3
› 4 x 10/100/1000Mbps PoE
› Triple independent display
› 8 x USB
› 2 x 2.5" SATA HDD, CFast™ and mSATA

EBOX671-885-FL

MEDIA CONVERTERS

› Pluggable 10G Fiber Transceiver slots
› 9 - 30 vDC
› Dual SFP, Dual XFP or XFP to SFP
› Fiber to fiber, copper to fiber and copper to copper conversion

S-10G MEDIA CONVERTERS

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SBA FOR MICROSOFT SKYPE FOR BUSINESS

› Up to 1000 Skype for Business users
› TCM connectivity (T1/BRI/FXO)
› SBC capability, up to 250 sessions
› Support emergency calling standards

SESSION BORDER CONTROLLER

› Certified for Microsoft Skype for Business
› High scalability, from 5 to 24K sessions
› Wide ITSP and PBX interoperability

CLOUDBOND 365

AUDIOCODES ONE BOX 365™

› Full Skype for Business UC in one box
› Up to 5000 users
› Gateway TCM/SBC
› Office 365 connector

TELÉFONO HOSPITALITY IP DECT

› Fully compliant with many vendors
› 1 Master – 6 slaves DECT configuration
› Customized High End Faceplate

TELÉFONO HOSPITALITY ANALÓGICO DECT

› Up to 10 programmable Guest room keys
› Message Waiting & ring indicator
› Redial, Hold & Volume control
› Customized High End Faceplate

SISTEMA VÍDEO CONFERENCIA

› 16 built-in microphones
› HDMI output 1080p
› Supports Google Docs, Dropbox
› Interoperable with many vendors

TELÉFONOS IP / SIP / SKYPE FOR BUSINESS

› SIP/MINET protocols compliant
› WiFi / DECT solutions
› Embedded gigabit switch
› Fully compliant with Skype for Business

PLATAFORMA COMUNICACIONES

› Mitel Appliance, server o VMWare
› Up to 5.000.000 extensions
› Hybrid IP and analog appliances

CONTACT CENTER

› Scalable, from 5 agents
› IVR routing
› Multimedia Contact Center
› Remote Agents

COLABORACIÓN • MiCOLLAB

› Unified messaging
› Audio, web and video conferencing
› Softphone on PC and mobile (teleworker)
› Installable on server, VMware and Hyper-V

MOVILIDAD

› Remote Teleworker solution
› Full access to all office system without VPNs
› Secure128 bit AES encryption

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ELECTRONIC ASSEMBLY
new display design

Intelligente PCAP Touch Panels
- I²C, SPI, RS-232
- 4,3" und 7"
- PCAP Touch Panels
- Handschuhgeeignet
- Grafik-/ Touchfunktionen
- Ready to Run
- USB Evaluation Kits

INTELLIGENTE TFTs
KAPAZITIVE TOUCH PANELS

ELECTRONIC ASSEMBLY GmbH • www.lcd-module.de
Fon: +49 (0)8105/778090 • vertrieb@lcd-module.de

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MULTICHIP BRIDGELUX VERO

› Holder integrado y 4 LES. 480 a 19.400 lm
› Eficiencia: 130lm/W. 2SDCM
› CRI: 70, 80, 90 ó 97
› Garantía 10 años

FAMILIA VERO

MULTICHIP BRIDGELUX FAMILIA V

› 4 LES. 350 a 6.500 lm
› Eficiencia: 130lm/W. 3SDCM
› CRI: 70, 80 ó 90
› Garantía 5 años

FAMILIA V

MÓDULO SEMIACABADO PARA LUMINARIAS

› Integra leds y lentes para luminarias de exterior. IP66
› Eficiencia: 118lm/W
› De 2.100 a 4.500lm
› CRI: 70 u 80
› Garantía 5 años

MÓDULO OLM BRIDGELUX

TIRAS DE LED
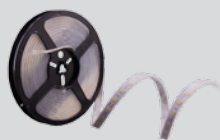
› De 30 a 204 leds/m
› De 4,8 a 28,8w/m
› CRI: 80, 90 ó 94
› Varios blancos, color o RGB
› IP20 hasta IP68.

BOBINAS DE 5M

FUENTES DE ALIMENTACIÓN IP20

› Entrada universal 88-264VAC
› Potencias: 15W y 3.000W
› PFC en algunos modelos
› Normativas CE, UL, cUL, TUV y CB

AC-DC DE TENSIÓN CONSTANTE

FUENTES DE ALIMENTACIÓN IP67

› Tensión constante. 20W a 150W
› Entrada 100-240VAC
› Protecciones: SCP, OVP, OCP
› Clase II

AC-DC DE TENSIÓN CONSTANTE

PERFILES ALUMINIO PARA TIRAS LED

› Varias medidas y formas.
› Instalación: superficie, empotrados, suspendidos, etc.
› Aluminio anodizado y tapa PMMA: opaca, traslúcida o transparente.

PERFIL ESQUINA LISO 19MM DE LADO

DRIVERS PARA EXTERIOR

› Corriente constante. IP67 y rango 60 a 500W
› PFC Activo (0.99 típico). Eficiencia: 95%
› Versiones ajustables, multicanales y regulación
› Protecciones: SCP, OVP, OCP y SP (6kV)
› Garantía 5 años

DRIVER CORRIENTE PARA LEDS

DRIVERS PARA INTERIOR

› Corriente constante. IP20 y rango 10 a 72W
› PFC activo y alta eficiencia.
› Versiones ajustables, multicanal y regulación
› Protecciones OVP, SCP, OTP y SP
› Garantía 5 años

DRIVER CORRIENTE PARA LEDS

CONTROLADORES RGB

› Variedad de señales e interfaces/protocolos
› Adaptación automática a la tensión de entrada
› Potencias de 72W/canal a 288W/canal. 3 canales
› Funciones en memoria en algunos modelos

CONTROLADOR RGB

REGULADORES LED MONOCOLOR

› Dimmers para regular la intensidad de luz
› Disponibles en versiones de 12Vdc y 220 Vac
› Diversas interfaces

DIMMER CON MANDO

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Fax: 902 995 414

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48200 Durango (Vizcaya)

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Fax: 902 995 414

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28019 Madrid

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Fax: 902 995 414 / +34 915 652 865

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Museros (Valencia)

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Fax: 902 995 414

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Fax: 902 995 414

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1170-105 Lisboa

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Fax: +351 218 149 482

matrix@matrix.es