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µWEBox eRouter GSM/GPRS

µWEBox eRouter frees equipment from the restrictions imposed by wired LAN connections to drive new business.

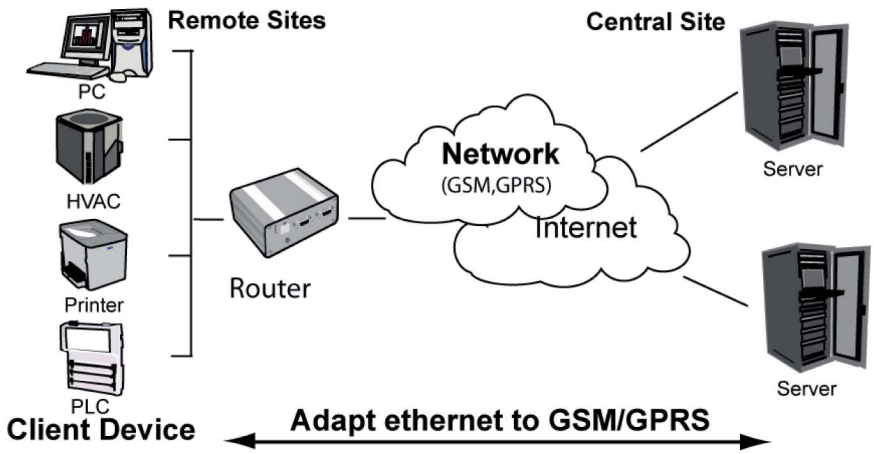
- Wireless GSM/GPRS router provides connectivity to LAN devices over mobile Networks
- Available in a rugged aluminium enclosure
- Specifically designed for M2M applications.

overview

Introducing the µWEBox eRouter GSM/GPRS specifically designed for machine-to-machine (M2M) applications. It is ideal for integration within OEM equipment or for adapting existing field-based equipment into an end-to-end system over a Wide Area Network (WAN). The µWEBox eRouter GSM/GPRS enables remote Ethernet devices to communicate over GSM/GPRS networks. Easy to install and configure it provides access to equipment in remote locations without the complexity of using the end customers private network. The µWEBox eRouter GSM/GPRS has been designed for robust and resilient operation and are housed in a rugged aluminium enclosure. Comtech M2M offers design, license and private label branding to meet your product lifetime needs.

remote networking solution

How difficult is it for you to gain access to your equipment through your customers LAN infrastructure? The first challenge is getting the agreement to install an “alien machine” on a secure IT network where it can be perceived as a fundamental threat to the security and integrity of the network as a whole. Even with this in place, the installation and maintenance creates additional cost and workload due to the reliance on the end customer and his associated work practises. The µWEBox eRouter GSM/GPRS eliminates these problems by creating a standalone network with wide area access through GSM/GPRS. It provides ease of installation to reduce the reliance on the end customer and enables direct access to remote equipment for control and monitoring purposes. With a growing adoption of Ethernet interfaces integrated directly onboard equipment, the µWEBox eRouter GSM/GPRS offers the ability to obtain remote access over GSM/GPRS for standalone access or secondary network back up



benefits

- Standalone—Easy access
- Eliminate local wiring
- Reduce customer reliance
- Rapid installation
- Easy to relocate
- Increased profitability
- Ease of connectivity to remote locations
- Rapid Return on Investment
- Fast time to market
- Reduce costs
- Reduce downtime
- Improve customer service
- Ease of upgradability
- Remove fixed restrictions by enabling applications mobility

specifications

routing	
Configuration	Ethernet Telnet session
PPP	PPP wrapping of TCP/IP data—up to 10 TCP sockets
NAT	Network Address Translation between local Ethernet IP & dynamically assigned IP address from network
Dial Out Mode	Multiple Ethernet Clients initiate calls on presence of data. NAT is performed
Dial In Mode	Multiple Ethernet Servers terminate incoming GSM calls. No NAT is performed
Always Connected Mode	Multiple Ethernet Client devices and a single Ethernet Server device remain always-on GPRS. Port forwarding to the single server device and NAT is performed
protocols	
Routing	TCP, IP, UDP PPP DNS NAT, IP Forwarding DHCP Server ARP PING
GSM/GPRS and ethernet network interface	
CSD	Non-transparent up to 9k6
Voice	FR,EFR,HR,DTMF
Fax	Group 3 class 1 & 2
Bands	900/1800Mhz 850/1900Mhz
GPRS	Class B 4+2 Class 10 56K (down), 28.8 K (up)
SIM	Onboard SIM socket 3/5v
Ethernet	10Base-T (10Mbps) RJ45 connector
physical interface connectors	
Debug	DB9 RS232 connector
Ethernet	RJ45
Antenna	SMA connector-GSM/GPRS
Power	8-36VDC Molex mini-fit
Indicators	4 LED's (Power and status)
Size	105 x 115 x 45mm approx
DC characteristics	
V (supply)	8-36V DC
Debug	Serial RS232
Ethernet	10 Base-T
conformance	
Europe	• CE (R&TTE, LVD, EMC) • RoHS • E-Mark
environment	
Operation	20°C to +70°C
Storage	-40°C to +85°C
Humidity	95% at +40°C non-condensing

tools

The µWEBox eRouter is released together with a Starter Kit. This provides the µWEBox eRouter with all the accessories necessary for rapid evaluation.

ordering information

Order code	Description
FR06000211	µWEBox eRouter GSM/GPRS (ROHS)
FR06000210	µWEBox eRouter GSM/GPRS Starter Kit
Contact Comtech	for your customisation needs.

accessories

Order code	Description
CABLE-DATA	Serial cable 9w to 9w
CABLE-001	Ethernet cross over cable
PSU-0012	110/230VAC to 9v DC/1.5A Power Supply
GSM-ANT-001	Standard SMA cellblock antenna
GSM-ANT-002	Standard SMA stub antenna
GSM-ANT-006	Standard wall-mount dipole antennae
CASE-0013/M	1 off Box Mounting Bracket (inc screw)
CABLE-027	Input filter cable* *NOTE: This must be used if the unit is powered from a low voltage source

related documentation

Modem/Router Family brochure

µWEBox eRouter User Manual

about Comtech M2M

Comtech M2M is the UK's leading machine to machine (M2M) communication company. M2M is the ability to connect remote devices with central IT systems and business processes without human intervention. Comtech M2M has created a robust communication platform for monitoring, controlling and managing any remote equipment across wide ranging industries. extra... is a wireless digital signage application that operates on the proven wireless communication infrastructure.

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