

Wireline LTE Backup Solution CAT12

The LTEBACKUP-CAT12 is an industrial strength cellular solution using LTE Advanced Carrier Aggregation technology for critical data applications. The LTEBACKUP-CAT12 provides fast CAT12 3xCA LTE connections with up to 600 Mbps for today's data intensive applications. The LTEBACKUP-CAT12 features 4x Gigabit LAN Ports, 2x Independent Gigabit WAN Ports, Serial Data/Console Ports, 2x Programmable I/O & Dual SIM w/Failover.

CAT12 - 600 Mbps LTE

Carrier Aggregation

Dual Independent WAN

6 Gigabit Ethernet Ports

Dual Serial Ports



Features

- **Ultra Fast CAT12 LTE Operation**
- **Up to 600 Mbps Downlink / 150 Mbps Uplink Over Air**
- **Dual SIM Card Support w/Failover & Load Balancing**
- **Firewall with ACL Security, DMZ & Port Forwarding**
- **IPSec, GRE / VPN Tunneling**
- **6 - 10/100/1000 Ethernet (PoE), (6LAN/2WAN)**
- **IPv6 & IPv4 Support**
- **2x Programmable Analog/Digital Inputs or 2 Digital Outputs**
- **RS232/485 Serial Data Port / RS232 Console/Data Port**
- **Wide Operating Temperature (-40°C to +85°C)**
- **Data Usage Alerts (Email, SMS)**
- **User interface via SSH or HTTP/HTTPS web browser**
- **Microhard NMS Support**



LTEBACKUP-CAT12 Specifications

Cellular Supported Bands	<p>LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B14/B17/B18/B19/B20/B21/B25/B26/B28/B29/B30/B32/B66; LTE-TDD: B38/39/B40/B41 WCDMA: B1/B2/B3/B4/B5/B8/B9/B19</p> <p>DL 2×CA: B1+3/5/18/19/20/26; B2+2/4/5/12/13/17/29/30/66; B3+3/5/7/8/19/20/28; B4+4/5/12/13/17/29/30; B5+7/30/66; B7+7/20/28; B12+30; B13+66; B19+21; B20+B32; B29+30; B38+38; B39+39; B39+39; B39+41; B40+40; B41+41; B66+66, 12, 29, 30, 5; B2+B14; B14+B30; B14+B66;</p> <p>DL 3×CA: DL inter-band 3CA: B1+3+5/7/8/19/20/28; B1+7+20; B2+4+5; B2+4+13, B2+5+30; B2+12+30; B2+29+30, B3+7+20, B3+7+28, B3+7+8, B4+5+30, B4+12+30, B4+29+30, B5+66+2, B13+66+2; B66+12+30; B66+29+30, B66+5+30; B2+B14+B66; DL 2 intra-band plus inter-band 3CA: B2+2+5; B2+2+13; B3+3+7; B3+7+7; B3+3+20; B3+3+28; B3+3+1; B4+4+5; B4+4+13; B7+7+28; B5+66+66; B13+66+66; B66+66+2; B39+B39+B41; B39+B41+B41; B14+B66+B66 DL 3 intra-band 3CA: B40+40+40; B41+41+41; B66+66+66</p> <p>UL 2×CA: B3+3; B41+41</p>	Firewall NAT, NAT-T VPN Tunneling, Port Forwarding, VPN/GRE pass-through; Access Control Lists, DMZ	
Cellular Data Features* <small>*Module Standalone Laboratory Performance</small>	LTE-FDD: Max 600Mbps (DL), Max 150Mbps (UL) LTE-TDD: Max 430Mbps (DL), Max 30Mbps (UL) UMTS: DC-HSDPA: Max 42Mbps (DL) HSUPA: Max 5.76Mbps (UL) WCDMA: Max 384Kbps (DL), Max 384Kbps (UL)	Management Telnet, WebUI, SNMP V1/2/3, Wireless Upgrade (HTTP/FTP), AT Command Interface (Serial/Telnet), Microhard NMS Support, Data Usage Alerts, SSH	
Ethernet	4x LAN 10/100/1000, Auto - MDI/X IEEE 802.3 2x WAN 10/100/1000, Auto - MDI/X IEEE 802.3	Diagnostics RSSI, Ec/No, Voltage, Temperature, Remote diagnostics, UDP Event Reporting, SMS Alerts, Netflow	
Serial Interface	RS232/485 Data Port, RS232 Console/Data Port	Input Voltage 7 - 30VDC Passive PoE Active PoE w/Adapter Reverse polarity protection	
Serial Baud Rate	300bps to 921kbps	Connectors: Antenna 2x SMA Female (Main, Diversity) Data 6x RJ-45 (Ethernet) 4 PIN Interlock (Vin, I/O)) 2x DB9 RS232/485 USB Type A SIM Dual Nano (4FF) SIM (Failover)	
Serial Port Service	Extensive Serial Port Support: TCP Server/Client / UDP Server/Client / Modbus / SMTP	Environmental Operating Temperature -40°C to +85°C Humidity 5-95%, non-condensing	
I/O	2x Programmable Analog/Digital Inputs or 2x Digital Outputs	Weight Approx. 350 grams	
USB	Type A USB 2.0	Dimensions Approx. 5.05" x 3.0" x 1.2" (128mm x 76mm x 30mm)	
SMS	SMS to/from Ethernet via Telnet SMS Alerts SMS Commands	Approvals FCC / IC PTCRB UL Hazloc (C1D2) Carrier Specific Approvals	
Carrier Connection	ICMP Keep Alive, Traffic Watchdog, DDNS, Failover	<h2>Order Options</h2>	
Network Protocols	IPv4, IPv6, TCP, UDP, TCP/IP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, DNS, Serial over IP, Modbus Slave (TCP/Serial), Load Balancer	MHK117785 Model: BulletPlusAC-CAT12-BK	
Security	VPN, IPSec with IKE/ISAKMP; Multiple tunnel support (16); 3DES and up to 256-bit AES Encryption, VPN Tunneling L2TP, GRE, Open VPN, HTTPS, RADIUS	MHS064020 Active PoE Adapter	
		MHS041420 4-Pin Power Cable	

Contact Information

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