

## OEM Dual Carrier Cellular Gateway

The DX Series provides a feature packed, compact industrial strength Dual Cellular Carrier OEM solution using ultra fast LTE technology. Supporting commonly used North America Bands the DX2-NA-OEM provides up to 150Mbps (per Carrier) for todays data intensive applications. The DX2-NA-OEM provides features such as Dual Active Carrier with Instant Failover to maximize redundancy, ensuring your Ethernet and Serial based devices are always connected.

150 Mbps LTE / Carrier

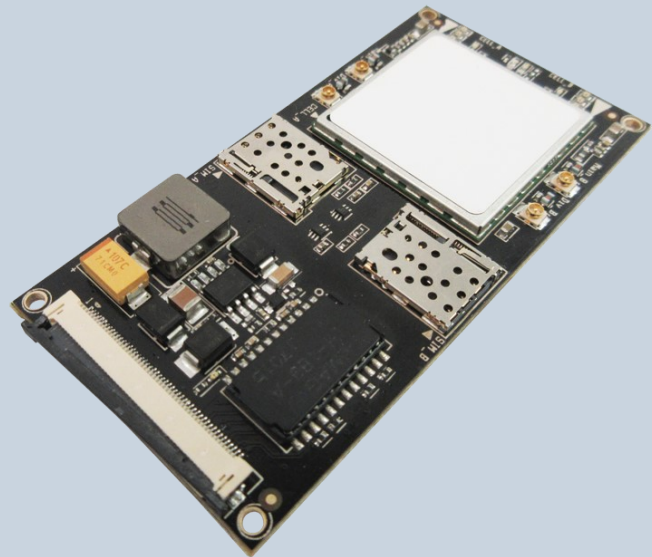
Firewall / ACL / VPN

Load Balancing

Instant Failover

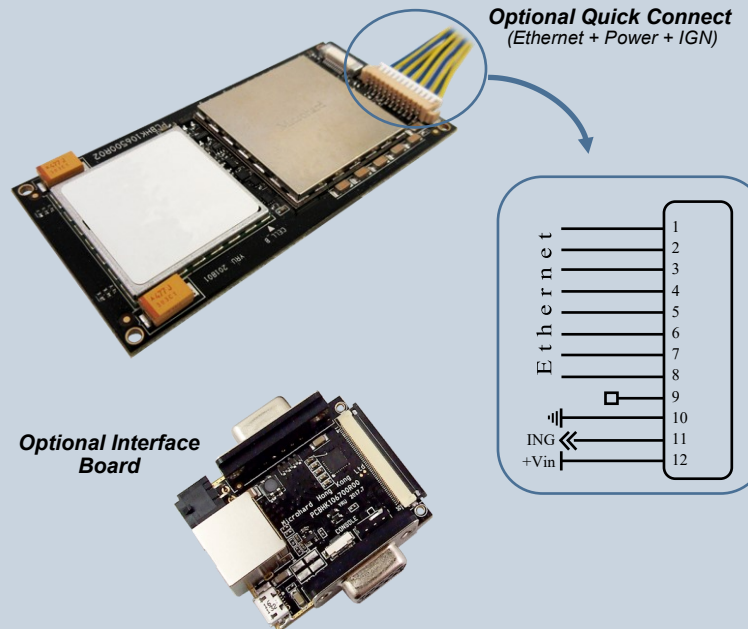
1 Gb Ethernet

RS232 Serial Port



## Features

- Dual Active Module - 4G/LTE Operation
- Dual Carrier / Dual SIM
- Carrier Failover for Instant Redundancy
- Up to 150 Mbps Downlink / 50 Mbps Uplink per Carrier
- Support for most North American Carriers
- IP Pass-through Mode
- Data Usage Alerts (Email, SMS)
- Firewall with ACL Security, DMZ & Port Forwarding
- IPSec, GRE / VPN Tunneling
- RS232 Serial Data Port
- 10/100/1000 Ethernet
- SMS Support: Ethernet (Telnet), Alerts
- RSSI, Status, Cellular LEDs
- Wide Operating Temperature (-40°C to +85°C)
- User interface via telnet or web browser
- Microhard NMS Support



# DX Series

# Specifications

<b>Supported Bands</b> (Dual Cellular Modules)	E-UTRA FDD (Bands 2,4,5,12/17,13) UMTS   HSPA+ (Bands 2,5) 3GPP Protocol Stack Release 9	<b>Diagnostics</b>	RSSI, RSRP, RSRQ, Voltage, Temperature, Remote diagnostics, Watch-dog, UDP Event Reporting, SMS Alerts, Netflow
<b>Cellular Data Features*</b> (per module)	LTE: DL 150 Mbps, UL 50 Mbps DC-HSPA+: DL 42 Mbps, UL 5.7 Mbps	<b>Input Voltage</b>	7 - 30VDC
<small>*Module Standalone Laboratory Performance</small>		<b>Connectors:</b>	
<b>Serial Interface</b>	RS232 Serial Data Port (TTL)	<b>Bullet-DX Module</b>	Antenna(s) 4x UFL(Main1/Div1, Main2/Div2) Data 50-pin ZIF/FFC (TTL) SIM 1.8 / 3.0V (Nano - 4FF) Data2 12 Pin (8 pin Ethernet + Power/IGN)
<b>Serial Baud Rate</b>	300bps to 921kbps	<b>Interface Module</b>	Power 4 PIN Interlock (Vin, Gnd) Serial Data 2x DB9 Female RS232 Ethernet RJ-45 Main Module Con. 50-pin ZIF/FFC (TTL)
<b>Serial Port Server</b>	Extensive Serial Port Support: TCP Server/Client / UDP Server/Client / Modbus / SMTP	<b>Environmental</b>	
<b>Ethernet</b>	10/100/1000BASE-T, Auto - MDI/X (TTL)	<b>Operating Temperature</b>	-40°C to +85°C -40°F to +185°F
<b>SMS</b>	SMS to/from Ethernet via Telnet SMS Alerts SMS Remote Reboots	<b>Humidity</b>	5-95%, non-condensing
<b>Carrier Connection</b>	Keep Alive, DDNS, IP pass-through, Failover, Load Balancer	<b>Weight</b>	<b>Bullet-DX Module</b> ~ 30 grams <b>Interface Module</b> ~ 20 grams
<b>Network Protocols</b>	TCP, UDP, TCP/IP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, DNS, Serial over IP, Modbus Slave (TCP/Serial)	<b>Dimensions</b>	<b>Bullet-DX Module</b> ~ 1.50" x 3.10" x 0.35" (38mm x 78mm x 9mm) <b>Interface Module</b> ~ 1.60" x 1.90" x 0.70" (41mm x 49mm x 18mm)
<b>Security</b>	VPN, IPSec with IKE/ISAKMP; Multiple tunnel support (16); 3DES and up to 256-bit AES Encryption, Site to Site Tunneling, L2TP, Open VPN, GRE, HTTPS, RADIUS	<b>Approvals</b>	FCC / IC PTCRB
<b>Firewall</b>	NAT, NAT-T VPN tunneling, Port forwarding, VPN/GRE pass-through; Access control lists (IP/MAC filtering), Data origin / integrity Authentication, DMZ	<b>Order Options</b>	
<b>Management</b>	Telnet, WebUI, SNMP V1/2/3, Wireless Upgrade (HTTP/FTP), RADIUS authentication, AT Command Interface (Serial/Telnet), Microhard NMS Support, Data Usage Alerts, SSH	<b>Model</b>	DX2-NA-OEM

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