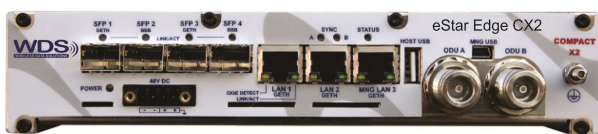


## eSTAR Edge CX2

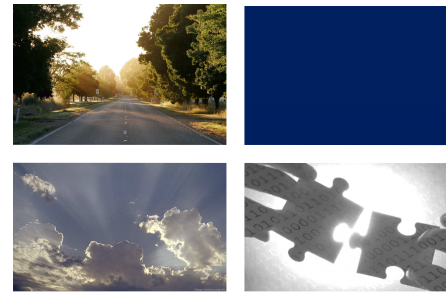
### High Capacity Last Mile Microwave System

### 6GHz to 38GHz Licensed Bands



### Lower deployment and operational costs

- » Software Selectable Channel Size from 7 MHz to 80 MHz
- » Modulation from QPSK to 1024QAM
- » High Power ODU for Smaller Antennas, Maximum Tx: 30dBm
- » Adaptive Power Control and Hitless Adaptive Modulation
- » XPIC supported for dual-polarization transmission
- » Secure Data Transport using AES-128/256 Encryption
- » Up to 6 Gigabit Ethernet Payload Ports, 4 x SFP & 2 x RJ-45
- » 802.1p, IPv4 TOS/DSCP, IPv6 Traffic Class & up to 4096 VLANs
- » Small IDU Size with Mounting for 2 IDUs in a 1U Rack Space
- » Simple Web Based Element Management with SNMP Agent
- » Positioned for Price Sensitive Applications
- » Deployable in 1+0, 2+0 and 1+1 Configurations



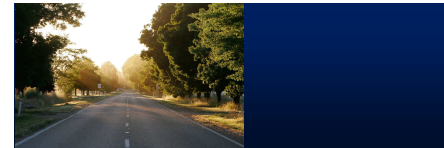
Wireless Data Solutions provide a complete product suite with a focus on solution based implementation. Our impressive range of products is supported by full engineering services, offering everything from design through to implementation.

The eSTAR Edge CX2 product family offers an ideal solution for high capacity Ethernet last mile and edge of network applications where reduced infrastructure requirements and limited access are common.

With increasing pressure to address the needs of remote subscribers while managing operational and capital expenditure, the requirement for robust, cost effective and future-proof linking systems has never been greater.

# eSTAR Edge CX2

The smart choice where price and performance matter



### General Specifications

**Interfaces:** 4 x 1000Base-X (SFP), 2 x 10/100/1000ETH (User or MGMT)    **Network Management:** HTTP/S, SNMP v.1/2c/3, Telnet / SSH

**Ethernet:** Latency: 100us – 400us, Maximum Frame – 10KBytes    **Input Voltage:** -20 to -72 VDC

**VLAN:** Up to 4096 VLANs, IEEE 802.1q    **Power Consumption:** <55W (IDU + ODU), <85W (IDU + 2 x ODU)

**ETH Compression:** L1 64byte Frames Max 21.5% from available ETH    **Frequency Stability:** +/- 5ppm

**Expansion Modules:** Up to 64 E1/T1, Up to 16 ASI ports    **Temperature:** IDU: -5C to +45C, ODU: -33C to +55C

**IF Port:** 50 Ohm coaxial, N connector, Female, 300m Max    **Mechanical:** IDU: 220x44x240mm / 2kg, ODU: 277x239x92mm / 4.3kg

**Compliance:** ETSI / FCC / CE / ROHS, IEC 60950-1/EN 60950-1, EN 302 217-2-2, EN 301 489, EN 300 132-2, EN 300 019

### ETSI Modulation List

| ETSI            |          | BW (MHz) |    |    |    |    |    |
|-----------------|----------|----------|----|----|----|----|----|
| Modulation List |          | 7        | 14 | 28 | 40 | 56 | 80 |
| Modulation      | QPSK     | ✓        | ✓  | ✓  | ✓  | ✓  | ✓  |
|                 | 16 QAM   | ✓        | ✓  | ✓  | ✓  | ✓  | ✓  |
|                 | 32 QAM   | ✓        | ✓  | ✓  | ✓  | ✓  | ✓  |
|                 | 64 QAM   | ✓        | ✓  | ✓  | ✓  | ✓  | ✓  |
|                 | 128 QAM  | ✓        | ✓  | ✓  | ✓  | ✓  | ✓  |
|                 | 256 QAM  | *        | ✓  | ✓  | ✓  | ✓  | ✓  |
|                 | 512 QAM  | *        | *  | ✓  | ✓  | ✓  | ✓  |
|                 | 1024 QAM | *        | *  | ✓  | ✓  | ✓  | ✓  |

\* = N/A

### Maximum TX Power Levels

| Modulation                  | Frequency Bands |       |      |        |         |       |       |       |       |       |        |       |       |       |
|-----------------------------|-----------------|-------|------|--------|---------|-------|-------|-------|-------|-------|--------|-------|-------|-------|
|                             | 6 GHz           | 7 GHz | 8GHz | 10 GHz | 10.5GHz | 11GHz | 13GHz | 15GHz | 18GHz | 23GHz | 26 GHz | 28GHz | 32GHz | 38GHz |
| Max. Power (dBm) QPSK       | 30              | 30    | 30   | 26.5   | 24      | 28    | 26    | 26    | 25.5  | 25    | 25     | 25    | 23    | 23    |
| Max. Power (dBm) 16 QAM     | 28              | 28    | 28   | 22.5   | 20.5    | 25    | 24    | 24    | 23    | 23    | 22     | 22    | 21    | 20    |
| Max. Power (dBm) 32 QAM     | 28              | 28    | 28   | 22.5   | 20.5    | 25    | 24    | 24    | 23    | 23    | 22     | 22    | 21    | 20    |
| Max. Power (dBm) 64/128 QAM | 25              | 25    | 25   | 20.5   | 18      | 22    | 20    | 20    | 19    | 19    | 19     | 19    | 18    | 17    |
| Max. Power (dBm) 256 QAM    | 23              | 23    | 23   | 18.2   | 16      | 20    | 18    | 18    | 17    | 17    | 17     | 17    | 16    | 15    |
| Max. Power (dBm) 512 QAM    | ◆               | ◆     | ◆    | ◆      | ◆       | ◆     | ◆     | ◆     | ◆     | ◆     | ◆      | ◆     | ◆     | ◆     |
| Max. Power (dBm) 1024 QAM   | ◆               | ◆     | ◆    | ◆      | ◆       | ◆     | ◆     | ◆     | ◆     | ◆     | ◆      | ◆     | ◆     | ◆     |

◆ = TBA

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