

### Value Proposition

- All-digital software defined modem
- 2.5 Gbps full-duplex data rate
- Compatible with ETSI 500 MHz channel spacing for 60, 70, and 80 GHz mm-wave bands

### Applications

- V-band and E-band wireless communications
- LTE, WiMAX and HSDPA+ wireless backhaul
- Small-cell backhaul
- CPRI Front Haul
- Private networks and campus connectivity
- Fiber extensions and replacements
- High definition video surveillance and monitoring
- Triple-play (voice, data and video) transmission
- Government and campus building interconnection
- Critical infrastructure protection
- Public safety



### **All-Digital 2.5 Gbps 500 MHz Modem Module**

Escape Communications' ESM-5008a modem module is an all-digital high-capacity single chip modem specifically designed for compatibility with the European 500 MHz channel allocations for the 60, 70, and 80 GHz mm-wave V- and E-band markets.

The ESM-5008a is an all-digital, high data rate modem that can provide up to 2.6 Gbps full-duplex data using 256QAM modulation in a 500 MHz ETSI channel. The modem board includes a powerful microprocessor, power-over-Ethernet and GbE, 2.5 GbE, and CPRI customer interfaces, and analog I/Q baseband interfaces to RF electronics.

Assembling a complete point-to-point mm-wave radio is as simple as pairing the ESM-5008a modem module with a mm-wave transceiver and a waterproof enclosure.

### **Features**

High data throughput to 2.5 Gbps full duplex

Gigabit Ethernet customer interfaces (copper and optical)

Meets ETSI 500 MHz channel spacing

Configurable BPSK thru 256QAM modulation with Adaptive Coding and Modulation (ACM)

Configurable FEC and fully synthesized transmit waveform

Layer-2 switch supporting

- In-band terminal management
- Ethernet flow control
- Jumbo frames
- IEEE 1588v2 and Sync-E

HTTP web GUI, telnet and SNMP for network management and control

802.11at Power over Ethernet (PoE+)

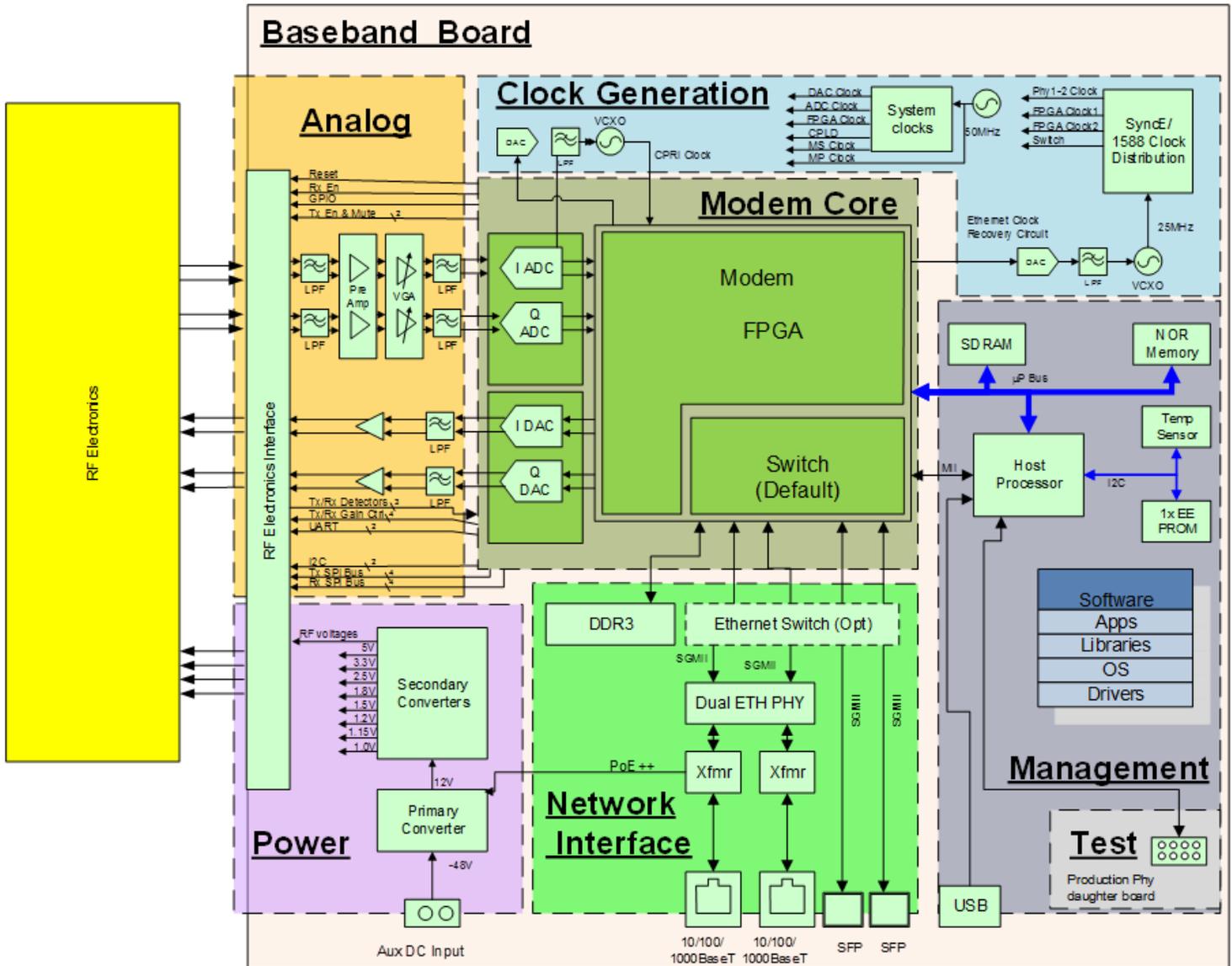
6.26 inch x 6.26 inch board designed for outdoor environment use

Available with RF for a full functional kit to accelerate TTM

# ESM-5008a

## GbE mmwave modem

### All-Digital 2.5 Gbps 500 MHz Modem Module



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