escapecommunications

ESM-20008a
GbE mmWave modem

Value Proposition

- All-digital software defined modem
- 10 Gbps full-duplex data rate
- 2 GHz 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
- Private networks and campus connectivity
- Fiber extensions and replacements
- Triple-play (voice, data and video) transmission
- Government and campus building interconnection
- Critical infrastructure protection
- Public safety applications

All-Digital 10Gbps in a 2GHz Bandwidth Modem

Escape Communications' ESM-20008a modem module is an all-digital high-capacity single chip modem designed to demonstrate a 10 Gbps backhaul modem made with all commercially available parts. The modem operates using a 2 GHz bandwidth for the 60, 70, and 80 GHz mm-wave V- and E-band markets.

The ESM-20008a is an all-digital, high data rate modem that can provide up to 10 Gbps full-duplex data using 256QAM modulation. The modem board includes a powerful microprocessor, power supply 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-20008a modem module with a mm-wave transceiver and a waterproof enclosure. See our kit offering to get started today!

Features

High data throughput to 10 Gbps full duplex

10 Gbit SFP interface

2 GHz Channel

Configurable BPSK thru 256QAM modulation with Adaptive Coding and Modulation (ACM)
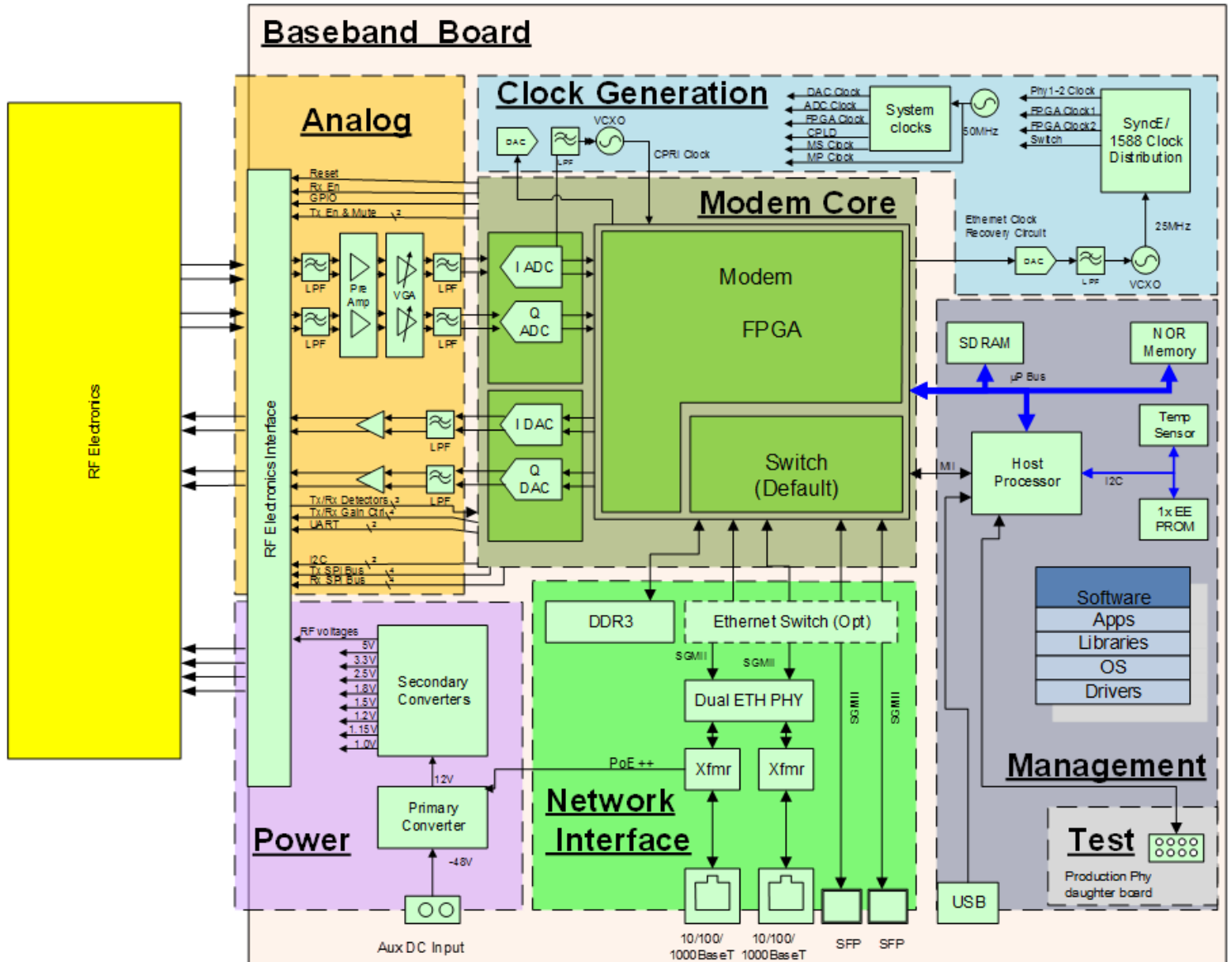
Configurable FEC and fully synthesized transmit waveform

6.26 inch x 6.26 inch board designed for outdoor environment use

Available with RF for a full functional kit to accelerate TTM

GUI Control

All-Digital 10 Gbps, 2000 MHz Modem Module

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