	MODEM IN-DOOR UNIT (MIDU) ASIC	
SCL Part No.	**SC1122-0**	
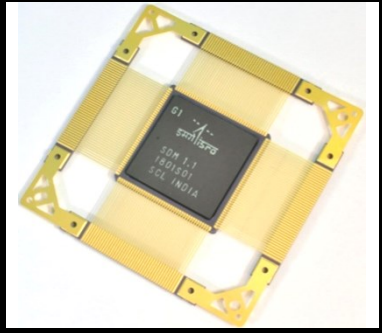
PRODUCT DESCRIPTION:

MIDU ASIC has been developed to form a crucial component in any of the ground based SATCOM Terminal. It supports wide range of Modulation schemes (BPSK/QPSK/8-PSK/16-QAM), Forward Error Correction techniques (Convolution, Reed-Solemn & Turbo). MIDU caters Data rate ranging from 2.4 Kbps to 40 Mbps & IF from 0 to 25 MHz. MIDU supports 3 modes for configuration and M&C i.e. SPI, UART & JTAG.

FEATURES:

- 3.3 V I/O pads Power Supply
- 1.8 V Core Supply
  - SCL's 180nm CMOS Technology
- Operation clock frequency 100 MHz
- 107 I/O's with 3.3V LVTTL
- Interface: SPI, UART, JTAG
- Operating Temperature -40ºC to 85ºC (Industrial grade)
- Testability Features: Scan and Functional
- Packaged in 164 Pins CQFP