

Product Description -- Super Modem III with Internal 3G / 4G LTE (3G / 4G LTE Wireless Router with Router / Bridge Mode)



General Features

- **Super Modem III** is a 3G / 4G LTE Modem with Ethernet Port and switchable for Router mode and bridge mode over PPPoE . Built-in 11n WiFi with AP and Bridge modes.
- An external USB port for connecting to specified GPS or Bluetooth .
- WiFi access point (with hidden antenna)
- Support TR-069 management(optional)

Cellular Specification

For model : sm_III_20E

(3G HSPA+ , availabel for Asia / Europe / Latin America)

- WCDMA/UMTS : 2100/1900/850(900)MHz
- EDGE/GPRS/GSM: 1900/1800/900/850MHz
- Output power :
 - Class 3 (24dBm +1/-3dB) for UMTS
 - Class E2 (27dBm \pm 3dB) for EDGE 850/900MHz
 - Class E2 (26dBm +3/-4dB) for EDGE 1800/1900MHz
 - Class 4 (33dBm \pm 2dB) for GSM 850/900MHz
 - Class 1 (30dBm \pm 2dB) for GSM 1800/1900MHz
- HSPA+ up to 14.4Mbps DL , 5.76Mbps
- UMTS up to 384.DL and UL
- EDGE 236.8kbps DL/236.8kbps UL
- GPRS 85.6kbps DL/86.6kbps UL

For model : sm_III_25E

(4G LTE , available for Asia / Europe / Latin America)

- LTE-FDD : Band- 1,3,5,7,8,20
- LTE-TDD : Band- 38,40,41
- WCDMA/UMTS : 2100/1900/850(900)MHz
- EDGE/GPRS/GSM: 1900/1800/900/850MHz
- Output power :
 - Class 3 (23dBm±2dB) for LTE FDD
 - Class 3 (23dBm±2dB) for LTE TDD
 - Class 3 (24dBm +1/-3dB) for TD-SCDMA
 - Class 3 (24dBm +1/-3dB) for UMTS
 - Class E2 (27dBm ±3dB) for EDGE 850/900MHz
 - Class E2 (26dBm +3/-4dB) for EDGE 1800/1900MHz
 - Class 4 (33dBm ±2dB) for GSM 850/900MHz
 - Class 1 (30dBm ±2dB) for GSM 1800/1900MHz

- LTE-FDD up to 150 Mbps DL, 50 Mbps UL
- LTE-TDD up to 130 Mbps DL, 35 Mbps UL
- DC-HSPA+ up to 42Mbps DL , 5.76Mbps
- UMTS up to 384.DL and UL
- EDGE 236.8kbps DL/236.8kbps UL
- GPRS 85.6kbps DL/86.6kbps UL
- LTE version 3GPP E-UTRA Release 10
- Bandwidth 1.4/3/5/10/20 MHz

For model : sm_III_25AU

(4G LTE , available for Taiwan / Australia / South America)

- LTE-FDD : Band- 1,2,3,4,5,7,8,28
- LTE-TDD : Band- 40
- WCDMA/UMTS : Band- 1,2,5,8
- Output power :
 - Class 3 (23dBm±2dB) for LTE FDD
 - Class 3 (23dBm±2dB) for LTE TDD
 - Class 3 (24dBm +1/-3dB) for TD-SCDMA
 - Class 3 (24dBm +1/-3dB) for UMTS
 - Class E2 (27dBm ±3dB) for EDGE 850/900MHz
 - Class E2 (26dBm +3/-4dB) for EDGE 1800/1900MHz
 - Class 4 (33dBm ±2dB) for GSM 850/900MHz
 - Class 1 (30dBm ±2dB) for GSM 1800/1900MHz

- LTE-FDD up to 150 Mbps DL, 50 Mbps UL
- LTE-TDD up to 130 Mbps DL, 35 Mbps UL
- DC-HSPA+ up to 42Mbps DL , 5.76Mbps
- UMTS up to 384.DL and UL
- EDGE 236.8kbps DL/236.8kbps UL
- GPRS 85.6kbps DL/86.6kbps UL
- LTE version 3GPP E-UTRA Release 10
- Bandwidth 1.4/3/5/10/20 MHz

For model : sm_III_25J

(4G LTE , available for Japan)

- LTE-FDD : Band- 1,3,8,18,19,26
- LTE TDD : Band- 41
- WCDMA: Band- 1,6,8,19
- Output power :
 - Class 3 (23dBm±2dB) for LTE FDD
- LTE-FDD up to 150 Mbps DL, 50 Mbps UL

For model : sm_III_25A

(4G LTE , available for AT&T, USA)

- LTE-FDD : Band- 2,4,12
- WCDMA: Band- 2,4,5
- Output power :
 - Class 3 (23dBm±2dB) for LTE FDD
- LTE-FDD up to 150 Mbps DL, 50 Mbps UL
- LTE version 3GPP E-UTRA Release 10

For model : sm_III_25V

(4G LTE , available for Verizon, USA)

- LTE-FDD : Band- 4,13
- Output power :
 - Class 3 (23dBm±2dB) for LTE FDD
- LTE-FDD up to 150 Mbps DL, 50 Mbps UL
- LTE version 3GPP E-UTRA Release 10
- Bandwidth 1.4/3/5/10/20 MHz

Wi-Fi Specifications

Output Power (WiFi)

- 802.11n:11 dbm
- 802.11g:13 dbm
- 802.11b:15 dbm

Sensitivity (WiFi):

- 802.11n : -68 dBm
- 802.11g : -68 dBm
- 802.11b : -85 dBm

WiFi Frequencies

- 2,4 - 2,462 GHz, CCK / OFDM (Modulation Range Coverage)

WiFi Distances

- Indoor: approximately 30 to 50 meters
- Outdoor: 80 to 100 meters

Compatibility

- IEEE 802.3 10 Base-T Ethernet
- IEEE 802.3u 100 Base-TX Fast Ethernet
- IEEE 802.3x Flow Control
- IEEE 802.11 b/g/n Wireless

Mechanical Specifications

- Plastic Housing with External Connectors
- Dimension (L x W x H): 110 x 60 x 24 mm
- Weigh: 260g
- Operating Temperature : -10°C a +55°C
- Storage Temperature : -20°C a +60°C
- Storage Humidity : 5% to 85% of relative humidity (with no condensation)

Connection Interfaces

- LAN Ethernet Interface 10/100 Base-TX, connector RJ-45
- SMA Connector for external 3G antenna (50 Ohm - option for internal 3G antenna)
- Internal Sim Card Reader: Chip SIM CR 3.0V, 1.8V .

Router Specifications

Firewall

- IP and MAC Filter
- Virtual Server and DMZ
- NAT (Network Address Translation)
- PPTP pass-through

VPN

- PPTP , L2TP passthrough
- PPTP , L2TP / IPSec client

Communication Protocols

- IP, NAT, DHCP, PAP, CHAP, PPP, TCP, UDP, HTTP, NTP. TR-069

Power Specifications

AC-DC Power Adapter

- Input: 90 to 240 VAC / 0,3A
- Frequency: 50/60 Hz
- Output: 8 VDC / 1 A

DC Input

- Input Voltage Range: 6 to 12 VDC - Input Power: 8 W

Packing List

- 1 3G wifi AP Router
- 1 Cellular Antenna - 3dBi SMA
- 1 AC-DC Power Supply
- 1 Ethernet Cable (1 meter)
- Manuals (Product, Installation and Quick Guide)

***Specifications are subject to change without notice**



***** Reference Models with list for built-in cellular modem.
(Please contact with us if require to add built-in cellular modems)**