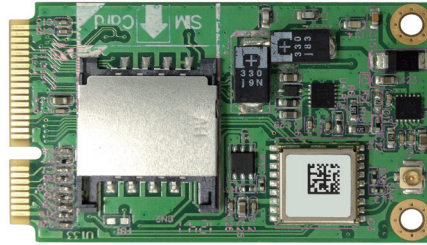


VIA
EMIO-2550

3.75G HSPA/UMTS mobile broadband full size miniPCIe module



Features

- 3.75G UMTS/HSPA module
- HSDPA up to 7.2 Mb/s
- HSUPA 5.76 Mb/s
- Integrated GPS/GNSS and A-GPS module (EMIO-2550-00A1 only)
- Integrated SIM card slot (excluding EMIO-2550-01A1)
- Android, Linux, Windows® 8/7 driver support

Specifications

Model Name	EMIO-2550 Mobile Broadband miniPCIe Module		
Wireless	HSUPA Data Rate	Up to 5.76 Mb/s	
	HSDPA Data Rate	Up to 7.2 Mb/s	
	UMTS/HSPA Bands	800/850/900/1700/1900/2100 MHz	
	GPRS/EDGE Bands	850/900/1800/1900 MHz	
	WCDMA/HSDPA/HSUPA Power Class	Power Class 3 (24dB)	
	GSM/GPRS Power Class	Power Class 4 (33dB) for GSM/E-GSM bands Power Class 1 (30dB) for DCS/PCS bands	
	EDGE Power Class	Power Class E2 (27dB) for GSM/E-GSM bands Power Class E2 (26dB) for DCS/PCS bands	
	Receiver Type	50 Channel GPS L1 frequency, C/A code SBAS: WAAS, EGNOS, MSAS	
	Sensitivity	Tracking & Navigation -161 dBm Reacquisition -160dBm Cold Start (without aiding) -148dBm	
	Maximum Navigation Update Rate	5Hz	
GPS (EMIO-2550-00A1 only)	Operational Limits	Dynamics ≤4g Altitude 50,000m Velocity 500m/s (Assuming Airborne <4g platform)	
	3G Antenna Guideline	Impedance	50Ω nominal characteristic impedance
		Frequency	824..960MHz: (GSM 850, GSM900, UMTS B5, UMTS B6, UMTS B8) 1710..2170MHz: (GSM 1800, GSM 1900, UMTS B1, UMTS B2, UMTS B4)
		Input Power	>2W Peak
		V.S.W.R	<2:1 recommended, <3:1 acceptable
		Return Loss	S11<-10 dB recommended, S11<-6 dB acceptable
		Gain	<3 dBi
		Antenna Type	Active Antenna Maximum gain 50dB Maximum noise figure 1.5dB
Active Antenna Recommendations	Minimum gain 15dB (to compensate signal loss in RF cable)		
General	Antenna Connector Type	U.FL microwave coaxial connector	
	Operating Voltage	3.3V (Typical)	
	Form Factor	miniPCIe	
	Interface	PCIe + USB 2.0	
Mechanical	Dimension	30mm(W) x 6.7mm(H) x 50.9mm(D) (1.18" x 0.26" x 1.99")	
Environment	Operating Temperature Condition	-20°C~65°C	
	Operating Humidity Condition	10%~90% non-condensing	
Certification	Compliant	GCF, R&TTE, RTCRB,FCC, IC, JATE/TELEC, A-tic, IDA, ANATEL	



Ordering Information

Part Number	Description
EMIO-2550-00A1	3.75G HSPA/UMTS mobile broadband full size miniPCle module with GPS and SIM slot
EMIO-2550-01A1	3.75G HSPA/UMTS mobile broadband full size miniPCle module
EMIO-2550-02A1	3.75G HSPA/UMTS mobile broadband full size miniPCle module with SIM slot for DoCoMo (Japan only)
EMIO-2550-03A1	3.75G HSPA/UMTS mobile broadband full size miniPCle module with SIM slot for SoftBank (Japan only)

Packing List

Items
EMIO-2550 module
2 Screw pack with washer and nut
3G antenna & antenna cable
GPS active antenna & antenna cable (EMIO-2500-00A1 only)

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