UMTS|HSPA+ 5.76/21.0

GFF910 FAMILY

Global Form Factor interface

Telit Unified AT Command Set

Multi Band

RX Diversity

Penta Band HSPA+

Quad Band EDGE

Quad Band GPRS

RoHS Compliant

SIM Access Profile

USB 2.0 High Speed Compatible

Embedded FTP and SMTP Client

Serial Port Multiplexer

28 Channel GPS Receiver

Extended RF Sensitivity

The GFF910 module is designed to allow the user easy plug and play options for GSM, UMTS, HSPA and CDMA. With plug and play options via the Telit Global Form Factor the entire range of xE910 modules are supported and options such as voice and GPS can easily be fulfilled without the need for re-work or re-design.

By providing an 80 pin Global Form Factor connector interface the GFF910 allows the user the option to mount the module which best fits their application.

In most cases your design needs to provide flexibility depending on which region the product is to be deployed and or certified. The GFF910 form factor takes the guess work out of the design by providing a single connector for interfacing the entire range of radio types depending on your needs.

Full electrical and software (AT command) compatibility is maintained between each module type be it GSM (GFF910-GE), CDMA (GFF910-DE or GFF910-CE) or HSPA+ (GFF910-G).

GFF910 Variants								
Variant name	**Upload**	**Download**	**Frequencies**	**Features**				
	HSUPA (Mbps)	HSDPA (Mbps)	UMTS|HSPA+ BANDS(MHz)	GSM|GRPS|EDGE Quad-band	Rx Diversity	Data	Voice	GPS
Global market								
GFF910-G	5.76	21.0	800/850/900/AWS/ 1900/2100	●	●	●	●	●
GFF910-DG	5.76	21.0	800/850/900/AWS/ 1900/2100	●	●	●		●
GFF910-D	5.76	21.0	800/850/900/AWS/ 1900/2100	●	●	●		
EMEA/APAC/Latin America markets								
GFF910-EUR	5.76	7.2	850/900/2100	●		●	●	
GFF910-EUD	5.76	7.2	850/900/2100	●		●		
GFF910-EUG	5.76	7.2	850/900/2100	●		●		●
North America market								
GFF910-NAR	5.76	7.2	850/900/2100	●		●	●	
GFF910-NAD	5.76	7.2	850/900/2100	●		●		
GFF910-NAG	5.76	7.2	850/900/2100	●		●		●
GSM/GPRS								
GFF910-GE	4 Bands GSM/GPRS: 850/900/1800/1900MHz			●		●	●	

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UMTS|HSPA+ 5.76/21.0

GFF910 Family

www.glynstore.com

actual size

Product features

- Supported bands
  4 Bands GSM / GPRS /EDGE:
  850 / 900 / 1800 / 1900 MHz
  5 Bands UMTS / HSPA:
  800/850, 900, AWS1700, 1900, 2100 MHz
- HSPA+ data up to 21.0 Mbps downlink / 5.76 Mbps uplink
- Quad Band GPRS and EDGE class 33
- Dimension: 36.2mm (L) x 30mm (W) x 5.5mm (D)
- 80 pin Global Form Factor connector interface
- Optional GPS
- Rx Diversity
- Extended temperature range
- SIM Access Profile
- 3GPP release 7 compliant
- Control via AT commands according to 3GPP TS27.005, 27.007 and customized Telit AT commands
- Serial port multiplexer 3GPP TS27.010
- SIM application Tool Kits 3GPP TS 51.014
- Built in UDP/TCP/FTP/SMTP stack

Optional GPS receiver

- SUPL 1.0
- High sensitivity for indoor reception, better than -165 dBm with A-GPS
- GPS Cold Start Autonomous (acquisition sensitivity) -147 dBm
- GPS Hot Start Autonomous -161 dBm
- GPS tracking mode -166 dBm
- Accuracy 3 m
- TTFF from Cold Start 42 s
- TTF from Warm Start 30 s
- TTF from Hot Start 1.8 s
- Supports multi-channel GPS
- L1 1575.42 MHz
- GPS NMEA 0183 output format
- Datum WGS-84
- Dedicated GPS AT commands

Data

- HSPA category 6 in uplink and up to category 14 in downlink
  - Uplink up to 5.76 Mbps
  - Downlink up to 21.0 Mbps (penta-band variants)
  - Downlink up to 7.2 Mbps (tri-band variants)
- UMTS
  - Uplink/Downlink up to 384 kbps
- EDGE
  - Uplink up to 236.8 kbps
  - Downlink up to 296 kbps
- GPRS
- CSD

Electrical

- Output power
  - Class 4 (2W, 33 dBm) @ GSM 850/900
  - Class 1 (1W, 30 dBm) @ GSM 1800 / 1900
  - Class 3 (0.25 W, 24 dBm) @ UMTS
  - Class E2 (0.5 W, 27 dBm) @ EDGE 850 / 900
  - Class E2 (0.4 W, 26 dBm) @ EDGE 1800 / 1900
- Sensitivity
  - -111 dBm @ UMTS
  - -109 dBm @ GSM 850 / 900 MHz
  - -110 dBm @ DCS1800 / PCS1900 MHz
- Supply voltage
  - Nominal: 3.8 VDC
  - Range: 3.4 - 4.2 VDC

Additional features

- Digital voice and SMS
- IP stack with TCP and UDP protocol
- Standard and extended AT command set

Approvals

- RoHS Compliant
- CE, GCF (Europe)
- FCC, PTCRB, IC (North America)

Python* application resources

- Python* version= 2.7.2
- Python* script interpreter (module takes the application code directly in the Python* language)
- Memory: 2MB of NV memory for the user scripts and 2 MB RAM for the Python engine usage

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