

FW2770p

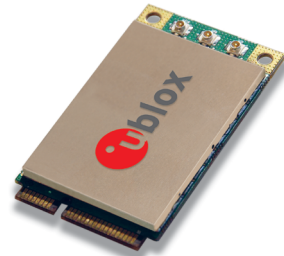
Standard Professional Automotive

CELLULAR

CDMA EV-DO module

Highlights

- CDMA EV-DO Rev A supporting data rates up to 3.1 Mb/s (forward link) and 1.8 Mb/s (reverse link)
- PCI Express Mini Card form factor
- Dual band 800/1900 MHz
- USB 2.0 interface
- A-GPS (optional)
- Rx diversity
- Sprint, Aeris and Verizon approvals



FW2770p:
30.0 x 51.0 x 4.5 mm

Product description

The u-blox FW2770p module provides a full-featured EV-DO Rev A dual band CDMA solution in an easy to integrate PCI Express Mini Card form factor. This high speed module supports EV-DO Rel 0 and 1xRTT networks and is ideally suited to consumer applications requiring high data transmission rates such as laptop and tablet connectivity, mobile Internet terminals and internet gateways.

The FW2770p is fully certified and is available with or without GPS to meet customer requirements.

Supporting a comprehensive AT command feature set, the FW2770p provides quick time to market and optimal performance.

Product selector

Model	Technology	Bands	Interfaces	Audio	Features	Grade
	CDMA EV-DO [Mb/s] (forward) CDMA EV-DO [Mb/s] (reverse) CDMA 1xRTT [kb/s] (forward/reverse)		UART SPI USB GPIO	Analog Audio Digital Audio	Network indication Antenna Supervisor Jamming Detection Embedded TCP/UDP Embedded FTP, HTTP Embedded SSL AssistNow software CellLocate® FOTA FW update via serial interface eCall/ ERA GLONASS Rx Diversity GPS	Standard Professional Automotive
PCI-D100	3.1 1.8 153	800/1900	1		• • • • • • • • • •	
PCI-D101	3.1 1.8 153	800/1900	1		• • • • • • • • • •	

Features

CDMA EV-DO Rev A	800/1900 MHz 3.1 Mb/s (forward link) 1.8 Mb/s (reverse link)
SMS	MT/MO PDU / Text mode

Software features

Protocols	Embedded TCP/IP and UDP/IP SMS Client with inbox functionality
Network	Over-the-Air (OTA) provisioning, software maintenance, and device management
AT commands	Enhanced AT command set: IS-707.3, GSM 07.05, GSM 07.07, ITU-T V.25 as applicable
Firmware upgrade	Via Serial FOTA

Electrical data

Power supply	VAUX for Mini PCIe (3.3 V)
Power consumption	Sleep mode <2 mA Idle mode ~100 mA Data traffic mode ~800 mA
RF sensitivity	-106.5 dBm, +/- 0.5 dBm (Typical)
Max. output	+24 dBm, +/- 0.5 dBm (Typical)

Interfaces

RF	3 Hirose UFL-R_XMT (50 Ω) Connectors (main, diversity, and GPS)
Communication	1 USB 2.0 (high-speed, 480 Mb/s)
R-UIM	Supported

Supported standards

- IS-856-A (CDMA1xEV-DO Rev A)
- IS-856 (CDMA1xEV-DO Rel 0)
- IS-2000 (CDMA2000 Release 0) MOB_P_REV 6
- IS-95A/IS-95B (JSTD-008) backward compatibility (MOB_P_REV1,3,4,5)
- TIA/EIA-98F minimum RF performance
- TIA/EIA-637A; two-way SMS
- TIA/EIA-683A; OTASP and OTAPA
- TIA/EIA-707A; data service options, CSD
- OMA-DM version 1.2

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Package

52 pin PCI Express Mini Card, 51 x 30 x 4.5 mm, 12 g

Environmental data, quality & reliability

Operating temp.	-30 to +85°C
Storage temp.	-40 to +105°C
RoHS compliant (lead-free)	

Certifications and approvals

FCC, CDG1 and 2, CCF, US CDMA Carriers approvals.
See the u-blox website for latest approvals.

Support products

EVK-D10	Evaluation Kit for FW2770p
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Product variants

PCI-D100	FW2770p: EV-DO PCI Express Mini Card, 800/1900 MHz.
PCI-D101	FW2770p: EV-DO PCI Express Mini Card, 800/1900 MHz, with GPS.

Further information

For contact information, see www.u-blox.com/contact-us.

For more product details and ordering information, see the product data sheet.