

Overview

C41QS is a Cat NB2 Module compatible with 3GPP E-UTRA Release 14 standards supporting a wide array of frequency bands making it usable globally while consuming very low power. The module comes in a compact form-factor of 17.7mm x 15.8mm x 2.0mm ideal for size constrained applications. The module supports an optional integrated GNSS, and eSIM that provides accurate locational services along with Global Connectivity and device management features powered by Cavli Hubble platform.

C41QS is ideal for applications that demand low space, low power consumption and aggressive pricing. It is suited for applications such as smart metering, smart parking, sensor and monitoring applications etc.

Key Highlights



Cat NB2



Ultra-Low Power Consumption



LGA Package



Compact Form Factor Design



Cavli Hubble Platform



Integrated GNSS



Basic Specification

Processor:	ARM Cortex M3 @ 204MHz clock
Flash:	4 MB
RAM:	272 КВ
OS:	Free RTOS

Radio Technology

RAT Used:	Cat NB2
3GPP Release:	14

LTE Bands

LTE: B1/B2/B3/B4/B5/B8/B12/B13/B14/B17/B18/B19/ B20/B25/B26/B28/B66/B70/B85

Internet Protocols

TCP, HTTP, MQTT

Interfaces

x3
x1
x1
x1
x2
x1

Temperature Range

Operating Temperature:	-35°C to +75°C
Extended Operating temp:	-40°C to +85°C



15.8 mm 2.0 mm

Packaging

Form Factor:	LGA
Dimensions:	17.7 x 15.8 x 2.0 mm
Pin Count:	58 Pins
Weight:	TBD

Network Speed (Peak Values)

Cat NB2:	DL 127Kbps & UL 158.5Kbps

Constellation Coverage

GPS / BeiDou & QZSS Capable	
Hot Start / Warm Start / Cold Start	

Power Characteristics

Voltage Range:	3.2V to 4.5V
Typical Voltage:	3.3 V
TxD Peak	TBD
TxD Idle	TBD
GNSS (Fix)	TBD

Applicable Region

Global

¹ Optional

² Needs SDK. Not available currently

³ In Progress

This document is a pre-release version. Some of the technical specifications are subjected to change.

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