



Hardware Product Support Matrix

This appendix identifies the embedded services supported by the various types of ASR 5000 packet processing cards and line cards.

It includes the following sections:

- [Packet Processing Cards, page 1](#)
- [Line Cards, page 3](#)

Packet Processing Cards

The table below cross-references embedded services with the types of packet processing cards that are capable of running the service in this StarOS release.

Packet processing cards included in this matrix are:

- PSCA = Packet Service Card - Type A (interchangeable with PSC)
- PSC2 = Packet Service Card - Type 2
- PSC3 = Packet Service Card - Type 3
- PPC = Packet Processing Card

The products (embedded services) included in this matrix are:

- **CDMA**
 - PDSN/HA = Packet Data Serving Node/Home Agent
 - HSGW = HRPD Serving Gateway
 - PMIPv6 = Proxy Mobile IPv6
- **Femtocell**
 - CDMA = Code Division Multiple Access
 - LTE = Long Term Evolution
 - UMTS = Universal Mobile Telecommunications System (GSM)

- **LTE**

- MME = Mobility Management Entity
- PGW = Packet Data Network Gateway
- SGW = Serving Gateway

- **Security Gateway**

- ePDG = Enhanced Packet Data Gateway
- PDIF = Packet Data Interworking Function
- TTG/PDG = Tunnel Termination Gateway/Packet Data Gateway

- **Other**

- GGSN = Gateway GPRS Support Node
- IMS-MMD = IP Multimedia Subsystem/Multimedia Domain
- IPCF = Intelligent Policy Control Function
- IPSG = IP Services Gateway
- MGW = Media Gateway
- OGW = Offload Gateway
- SGSN = Serving GPRS Support Node

Table 1: Packet Processing Card – Product Support Matrix

Embedded Service	PSCA	PSC2	PSC3	PPC
CDMA				
PDSN/HA	Yes	Yes	Yes	No
HSGW	Yes	Yes	Not Qualified	No
PMIPv6	No	Yes	Not Qualified	No
Femtocell				
CDMA	No	NA	Not Qualified	NA
LTE	No	Yes	Not Qualified	No
UMTS	No	Yes	Not Qualified	No
LTE				
MME	No	Yes	Yes	No
PGW	No	Yes	Yes	Yes
SGW	Yes	Yes	Yes	Yes

Embedded Service	PSCA	PSC2	PSC3	PPC
Security Gateway				
ePDG	No	Yes	Not Qualified	No
PDIF	No	NA	Not Qualified	NA
TTG/PDG	No	Yes	Yes	No
Other				
GGSN	Yes	Yes	Not Qualified	Yes
IMS-MMD	No	Yes	Yes	No
IPCF	No	Yes	Not Qualified	No
IPSG	No	Yes	Yes	No
MGW	No	Yes	Not Qualified	No
OGW	No	Yes	Not Qualified	NA
SGSN	No	Yes	Yes	No

Line Cards

The table below cross-references embedded services with the types of line cards that interoperate with the service in this StarOS release.

Line cards included in this matrix are:

- SPIO = Switch Processor I/O
- RCC = Redundancy Crossbar Card
- FLC2 = Fast Ethernet Line Card
- GLC2 = Gigabit Ethernet Line Card
- QGLC = Quad Gigabit Ethernet Line Card
- XGLC = 10 Gigabit Ethernet Line Card
- CLC2 = Channelized Line Card (Frame Relay over SDH/SONET. STM-1, OC-3)
- OLC2 = Optical Line Card (ATM over SDH/SONET signaling, IPoA [PVC])

Table 2: Line Card – Product Support Matrix

Embedded Service	SPIO	RCC	FLC2	GLC2	QGLC	XGLC	CLC2	OLC2
CDMA								
PDSN/HA	Yes	Yes	Yes	Yes	Yes	Yes	No	No

Embedded Service	SPIO	RCC	FLC2	GLC2	QGLC	XGLC	CLC2	OLC2
HSGW	Yes	Yes	Yes	Yes	Yes	Yes	No	No
PMIPv6	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Femtocell								
CDMA	Yes	Yes	Yes	Yes	Yes	Yes	No	No
LTE	Yes	Yes	Yes	Yes	Yes	Yes	No	No
UMTS	Yes	Yes	Yes	Yes	Yes	Yes	Yes Note 1	Yes Note 1
LTE								
MME	Yes	Yes	Yes	Yes	Yes	Yes	No	No
PGW	Yes	Yes	Yes	Yes	Yes	Yes	No	No
SGW	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Security Gateway								
ePDG	Yes	Yes	Yes	Yes	Yes	Yes	No	No
PDIF	Yes	Yes	Yes	Yes	Yes	Yes	No	No
TTG/PDG	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Other								
GGSN	Yes	Yes	Yes	Yes	Yes	Yes	No	No
IMS-MMD	Yes	Yes	Yes	Yes	Yes	Yes	No	No
IPCF	Yes	Yes	Yes	Yes	Yes	Yes	No	No
IPSG	Yes	Yes	Yes	Yes	Yes	Yes	No	No
MGW	Yes	Yes	Yes	Yes	Yes	Yes	No	No
OGW	Yes	Yes	Yes	Yes	Yes	Yes	No	No
SGSN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Note 1. Home NodeB Gateway (HNB-GW) applications.