E4-E5 (CM)

Data Cards for GSM,CDMA and 3G

WELCOME

- This is a presentation for the E4-E5 CM Module for the Topic: 'Data Cards for GSM, CDMA and 3G'.
- Eligibility: Those who have got the Upgradation to from E5 to E6.
- This presentation is last updated on 02-4-2011.
- You can also visit the Digital library of BSNL to see this topic.

AGENDA

- Introduction of BSNL Broadband service.

- Data services through CDMA.

- NIC and EVDO cards.

- 3G data cards.

BSNL Internet Services

Introduction

- BSNL is India's no. 1 Internet service provider with more than 17 lakh subscribers, providing Internet service throughout the entire country (except in New Delhi and Mumbai) under the brand name of "Sancharnet".

- Sancharnet provides free all India roaming and enables it's users to access their accounts, using the same access code (172233) and user ID from any where in the Country.

BSNL Internet Services

- In order to make Internet available through out the length and breadth of the Country Internet Dhabas are being commissioned at all the Block Headquarters.

- BSNL is also providing Internet on mobile via various mobile technologies like GPRS, EDGE ,CDMA 2000 1X , EVDO , 3G and HSDPA.

Data Services through CDMA

- BSNL has launched its Data Services on CDMA 2000 IX by using BSNL Internet Connect Card (ICC). The CDMA IX ICC provides Internet Service @144kbps to computer users on their laptops as well as on desktops. This service will be available in all those locations wherever CDMA IX MSC based coverage is there.

Data Services through CDMA

- All other service providers ask subscriber to purchase the data card and subscriber do not have any alternatives if he wishes to discontinue. There is no way subscriber can return the data card to get his money. But for BSNL subscriber can give the data card back after the minimum rental period and you will get the security deposit back.

NIC and EVDO Cards

The following two types of data Cards will be available for

BSNL customers:

- (A) Network Interface Card (NIC) : For internet speed up

  to 144 Kbps.

- (B) EVDO Card : Internet speed up to 2.4 Mbps.

NIC and EVDO Cards

Now, BSNL is also offering roaming facility on these cards.

The charges of unlimited internet usage through these NIC and EVDO Cards are as under :

S. No.	Particulars	Tariff of NIC Card (Unlimited) in Rs.	Tariff of EVDO Card (Unlimited) in Rs.
1.	Activation charges	250	500
2.	**Charges for Cards**		
	i Sale Price of ICC Card in Rs.*	2000	2500
	ii Alternate to purchase of ICC :		
	ii (a) Fixed monthly charges for card	150	200
	ii (b) Security Deposit (refundable)	1000	1000

NIC and EVDO Cards

BSNL is providing NIC and EVDO cards on rent basis and also through permanent sale basis. However the facility to covert rent based plan to sale of card is also available and discount is also allowed for the transaction.

NIC and EVDO Cards

Discount Structure for conversion from Rent Based Plan to Sale of NIC/EVDO Data Card

Months (for which rent is paid)	Discount Allowed on sale price	
	NIC	EVDO
1 to 3 Months	NIL	NIL
4 to 6 Months	20%	20%
7 to 12 Months	40%	40%
13 Months and above	50%	60%

3G Data Cards

With the launching of 3G / HSDPA services by BSNL, the facility of fast internet on mobile / laptop can be availed by using these technologies.

Like CDMA 2000 1X and EVDO the internet connectivity through 3G / HSDPA is possible by using USB and PCMCIA based 3G data cards.

3G Data Cards

3G Data cards are meant for accessing internet and emails at anytime and from anywhere. Thus 3G Data Cards help us to work on the move with full email and web access .

It provides Simple and instant internet access at mega fast speeds up to 3.6 Mbps. 3G data cards make us free from messy wires, Fixed Line Requirement, No Need of Cyber Cafe / Hot Spot to Access Internet. Thus your Lap top become truly mobile.

3G Data Cards

You have to Plug in 3G Data Card into your laptop and can get the fastest available connection. Its neat, compact design makes it easy to use; you can easily swap it between laptops for use at work, home or on the move.

Laptops have a PC Card slot (also known as a PCMCIA slot), or an Express Card slot. There is PCMCIA to Express Card Converter For using 3G broadband, you need 3G Data card, network SIM card, software, user guide.

3G Data Cards

BSNL is providing USB type 3G data card of M/s. TERACOM LTD make and PCMCIA type 3G data card of M/s. Capitel Wireless Pvt. Ltd make. The details of USB and PCMCIA 3G data cards are given below:-

S. No	Vendor (Type)	Make/ Model	Data Speed	Frequency Band	MRP (Rs.) (Incl. of all taxes) (Maha.& M.P.)	MRP (Rs.) (Incl. of all taxes) (Other Circles)
1	Teracom Ltd. (USB Type)	Linktop / LW272	3.6 MBPS	Single Band	2200	2000
2		Linktop / LW273	7.2 MBPS	Tri Band	2600	2500
3	Capitel Wireless Pvt. Ltd (PCMCIA Type)	Option / GTMAX having Qualcom chipset 7200 Globe Trotter HSUPA	3.6 MBPS	Single Band	4000	4000
4			7.2 MBPS	Tri Band	4500	4500

3G Data Cards

BSNL 3G data services are available in both post paid and pre-paid schemes.

Activation of Data Plans: SIM and Activation charges as applicable to 3G Postpaid & Prepaid voice plan will also be applicable for 3G data services.

In place of existing FRC 120 for activation of 3G data plan, the following new FRCs for activation of data plan are introduced.

3G Data Cards

Particulars	FRC 51
MRP of FRC (Incl. of S.Tax)	Rs.51
Free usage value in Rs.	Nil
Validity	180 days
Free Data usage	1 GB per Month for 2 months
Availability	Through C-Topup
Applicability	Any data plan with sale of BSNL data card or any of the BSNL bundled data card
Base Voice Tariff plan	As per prepaid General 120 plan

3G Data Cards

3G Postpaid Data Plans

Fixed Monthly Charge in Rs. (Srv.Tax Extra)	Day/Any time usage in GB	Night * usage in GB	Total bundled free Usage in GB	Data Charges in Rs./10 KB*** (except APN 'bsnlstream')	Data Charges in Rs./MB***(For APN bsnlstream)
249	0.50	--	0.50	0.02	0.25
399	1	--	1	0.02	0.25
549	1	5	6	0.02	0.25
649	2	--	2	0.02	0.25
999	10	--	10	0.02	0.25
1359	15		15	0.02	0.25
2720	35		35	0.02	0.25

3G Data Cards

Short term validity data recharge vouchers for 3G prepaid services

MRP of RCV in Rs. (Incl. of Srv. Tax)	Service Tax in Rs.	Cost of RCV in Rs.	Free data usage in MB	Validity in days
10	0.93	9.07	20	1
25	2.33	22.67	50	3
50	4.67	45.33	100	7

3G Data Cards

3G Prepaid Data Plans

Data RCV in Rs.(Inclusive Service Tax)	Day/Any time usage in GB	Night * usage in GB	Total bundled free Usage in GB	Validity (days)**	Data Charges in Rs./10KB*** (except APN 'bsnlstream')	Data Charges in Rs./MB***(For APN bsnlstream)
275	0.50	--	0.50	30	0.02	0.25
440	1	--	1	30	0.02	0.25
606	1	5	6	30	0.02	0.25
716	2	--	2	30	0.02	0.25
1102	10	--	10	30	0.02	0.25
1500	15		15	30	0.02	0.25
3000	35		35	30	0.02	0.25

* 11.00 PM to 07.00 AM

** This will increase the validity of main and dedicated accounts both.

*** Data charges beyond free usage shall be deducted from the available balance in his main account. Free data usage is available both from home LSA and while roaming.

3G Data Cards

3G Data Top-up Voucher

Type of Voucher	MRP (Incl. of S. Tax)	Free Usage in MB	Validity
3G Data Top-up	Rs.197	500 MB	Nil

Trial Pack :(Inclusive of Service Tax)

1	MRP of Trial pack in Rs. (Incl. of S. Tax)	Rs.121
2	Free usage in MB	300 MB
3	Validity in days*	15 days

Some Important Terms

- GSM   Global System For Mobile Communication.

- GPRS   General Packet Radio Service.

- EDGE   Enhance Data Rate for GSM Evolution.

- UMTS   Universal Mobile Telecommunications System.

- CDMA   Code Division Multiple Access.

- EVDO   Evolution for Data Only.

- HSDPA   High Speed Downlink Packet Access.

- NIC   Network Interface Card.

- PCMCIA   Personal Computer Memory Card International Association.

- FRC   First Recharge Coupon.

- RCV   Recharge Coupon Voucher.

- APN   Access Point Name.