HiPath 3000 V3.0
Vital Statistics

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HiPath 3250, 3350 & 3550 V3.0

Vital Statistics

HiPath 3250, 3350 & 3550 V3.0 Vital Statistics

Detailed below is information on the physical build and specifications for version 3 of the HiPath 3250, 3350 and 3550 wall mounted voice servers which should be useful when responding to tenders etc.

Maximum Capacities

The following figures **exclude** extensions connected via adapters.

HiPath 3250

Maximum corded (TDM) extensions	8
Maximum cordless (TDM) extensions	8
Maximum IP devices	Nil
Maximum trunks	4 B Channels (BRI ISDN only)

HiPath 3350

Maximum corded (TDM) extensions	44
Maximum cordless (TDM) extensions	16
Maximum IP devices	96
Maximum trunks	16

HiPath 3550

Maximum corded (TDM) extensions	116
Maximum cordless (TDM) extensions	64
Maximum IP extensions	192
Maximum trunks	60 (one PRI card only)

NB 1 The maximum combined trunk and extension capacities for HiPath 3350 and 3550 will depend on individual configurations.

NB 2 The maximum combined TDM corded, cordless and IP extension capacities will depend on individual configurations.

NB 3 ISDN devices connected via S0 bus to be included in extension capacities.

HiPath 3250, 3350 & 3550 V3.0 Vital Statistics

Control Unit Details

Number of Universal Card Slots	HiPath 3250	None (fixed configuration)
	HiPath 3350	2
	HiPath 3550	6 Plus 1 large format slot
Cabinet size (H * W * D)	HiPath 3250	290mm*365mm* 65mm
	HiPath 3350	450mm*460mm*130mm
	HiPath 3550	450mm*460mm*200mm
Cabinet weight	HiPath 3250	1.0Kg
	HiPath 3350	6.0Kg
	HiPath 3550	8.0Kg
Main Distribution Frames (MDF)	Integrated. Uses screw connectors	

NB On HiPath 3550 an external box connection will be required if the large format card is used.

Processor Board Details

System memory	16Mbit Memory Module
Motorola Coldfire	System CPU
Maintenance modems	Integrated digital (ISDN) modem
	Optional V32 bis 14.4Kbits analogue modem (N/A HiPath 3250)
V 24 Ports	HiPath 3250 1 (9 way D)
	HiPath 3350/3550 2 (9 way D plus optional 24 way D)

Operating Environment

Temperature	+5 to +40 degrees C
Relative humidity	5 to 80%
Absolute humidity	2 to 25 g H20/m3
Heat emission	HiPath 3250 37KJ/h
	HiPath 3350 180KJ/h
	HiPath 3550 360KJ/h

NB Control units use conventional convection cooling.

HiPath 3250, 3350 & 3550 V3.0 Vital Statistics

Power Requirements

Rated input voltage	100/240V AC	
Rated frequency	50/60 Hz	
Power consumption	HiPath 3250	25 Watts maximum
	HiPath 3350	90 Watts maximum
	HiPath 3550	180 Watts maximum

A clean dedicated mains supply is required terminating on a 13 amp socket (in accordance with IEEE regulations). Mains plugs should be fitted with a 3 Amp fuse.

UPS Battery Specifications

Battery Capacity	HiPath 3250	N/A
	HiPath 3350	48V - 1.2 Ah
	HiPath 3550	48V - 1.2 Ah
Battery back up times	HiPath 3350	30 minutes (average config)
	HiPath 3550	15 minutes (average config)

Telecommunications Earth

A Telecommunications earth is not required.

Cable Specifications and Distances for TDM devices

Standard 0.5mm twisted pair cable.
Single pair required by both analogue and digital (optiPoint 500) telephones.
Maximum distance optiPoint 500 - 500 metres (extended to 1000 metres with plug in PSU).
Maximum distance optiPoint Master to optiPoint / analogue slave - 100 metres.
Maximum distance analogue device - 1000 metres.
Maximum distance S0 Bus - up to 150 metres, point to multipoint. 600 metres point to point.
Maximum distance DECT base station - 1000 metres

HiPath 3250, 3350 & 3550 V3.0 Vital Statistics

Trunk Specifications

HiPath 3250

Digital	BRI (ISDN 2e)
Analogue	Not available

HiPath 3350

Digital	BRI (ISDN 2e)
Analogue	Loop Calling Unguarded Clear
	Loop Disconnect or DTMF signalling

HiPath 3550

Digital	BRI (ISDN 2e). PRI (ISDN 30e)
Analogue	Loop Calling Unguarded Clear
	Loop Disconnect or DTMF signalling

Extension Specifications

Digital	2B + D using Siemens UPOE protocol
Analogue	DTMF / Loop Disconnect. Timed Break Recall (TBR)

Tie Line Specifications

Digital	**(N/A 3250)**	Siemens CorNet N and QSIG
Analogue		Not available

CE Compliance

Electromagnetic Compatibility	EN 50082-1
DECT	ETS 300, 329. TBR 06

Safety

International	IEC 60950 + A1 + A2 + A3 + A4

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HiPath 3300 & 3500 V3.0

Vital Statistics

HiPath 3300 & 3500 V3.0 Vital Statistics

Detailed below is information on the physical build and specifications for Version 3 of the HiPath 3300 and 3500 rack mounted voice servers which should be useful when responding to tenders etc.

Maximum Capacities
The following figures **exclude** extensions connected via adapters.

HiPath 3300
Maximum corded (TDM) extensions	28
Maximum cordless (TDM) extensions	16
Maximum IP extensions	96
Maximum trunks	16

HiPath 3500
Maximum corded (TDM) extensions	52
Maximum cordless (TDM) extensions	32
Maximum trunks	60 (one PRI card only)
Maximum IP extensions	192

NB 1 The combined maximum trunk and extension capacities will depend on individual configurations.   **NB 2** The combined maximum TDM corded, cordless and IP extension capacities will depend on individual configurations.
NB 3 ISDN devices connected via S0 Bus to be included in extension capacities.

Control Unit Details
Number of universal card slots	HiPath 3300	2
	HiPath 3500	6
Cabinet Size (H * W * D)	HiPath 3300	89mm*440mm*380mm (2U)
	HiPath 3500	155mm*440mm*380mm (4U)
Cabinet Weight	HiPath 3300	6KG (fully configured)
	HiPath 3500	8 KG (fully configured)

NB Systems are designed to be mounted in a standard 19-inch rack.

HiPath 3300 & 3500 V3.0 Vital Statistics

Main Distribution Frames (MDF)
All trunk and extensions pre-terminated on integrated RJ45 sockets.

Processor Board Details

V24 Ports	1 (9 way)
System memory	16Mbit Memory Module
System CPU	Motorola Coldfire
Maintenance modems	Integrated digital (ISDN) modem
	Optional V32 bis 14.4Kbits analogue modem

Operating Environment

Temperature	+5 to +40 degrees C
Relative humidity	5 to 80%
Absolute humidity	2 to 25g H20/m3
Heat emission	HiPath 3300 180KJ/h
	HiPath 3500 360KJ/h

NB Systems uses fan assisted cooling.

Power Requirements

Rated input voltage	100/240V AC.
Rated frequency	50/60 Hz.
Power consumption	HiPath 3300 90 watts
	HiPath 3500 180 watts

A clean dedicated mains supply is required terminating on a 13 Amp socket (in accordance with IEEE regulations). Mains Plugs should be fitted with a 3 Amp fuse.

HiPath 3300 & 3500 V3.0 Vital Statistics

UPS Battery Specifications

Battery size (H * W * D)		155mm*440mm*380mm (4U)
Battery capacity		7 Ampere hour
Output voltage		48 Volts
Battery back up times	HiPath 3300	4 hours 40 minutes (average config)
	HiPath 3500	2 hours 20 minutes (average config)

Rack Earthing: Earthing of the 19-inch rack must be in accordance with the latest edition of IEE regulations.

Cable Specifications and Distances for TDM devices

Standard 0.5mm twisted pair cable.
Single pair required by both analogue and digital (optiPoint 500) telephones.
Maximum distance optiPoint 500 - 500 metres (extended to 1000 metres with plug in PSU). Maximum distance optiPoint 500 Master to optiPoint 500 / analogue slave - 100 metres.
Maximum distance analogue device - 1000 metres. Maximum distance S0 Bus - up to 150 metres point to multipoint. 600 metres point to point.
Maximum distance DECT base station - 1000 metres.

Trunk Specifications

HiPath 3300   Digital: BRI (ISDN 2e) Analogue: Loop Calling Unguarded Clear
HiPath 3500 Digital: BRI (ISDN 2e). PRI (ISDN 30e)
Analogue: Loop Calling Unguarded Clear

Extension Specifications

Digital: 2B + D using Siemens UPOE protocol.
Analogue: DTMF / Loop Disconnect. Timed Break Recall (TBR).

Tie Line Specifications

Digital:	Siemens CorNet N
QSIG Analogue :	Not available
CE Compliance:	
Electromagnetic Compatibility	EN 50082-1
DECT	ETS 300, 329. TBR 06
Safety - International	IEC 60950 + A1 + A2 + A3 + A4

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HiPath 3700 & 3750 V3.0

Vital Statistics

HiPath 3700 & 3750 V3.0 Vital Statistics

Detailed below is information on the physical build and connection specifications for Version 3.0 of the HiPath 3700 (19-inch rack mount) and 3750 (floor mount) which should be useful when responding to tenders etc.

Max. Capacity (3700 and 3750)

Maximum number of TDM corded extensions	384
Maximum number of TDM cordless extensions	250
Maximum number of IP extensions	500
Overall maximum number of extensions	500
Maximum number of trunks	120 (Exchange /Tie / S0)
Maximum data devices	50 (Data / ISDN Adapters)

Cabinet Details (3700 and 3750)

Maximum number of cabinets	3
Number of universal slots per cabinet	
Cabinet one	7
Cabinets two and three	8
Cabinet size (H * W * D)	490mm * 410mm * 390mm ((11U)
Cabinet weight (fully equipped)	22KG

NB1 HiPath 3700 cabinets are designed to be mounted in a standard 19-inch rack.

NB2 If HiPath 3700 cabinets are installed in two separate racks then racks need to be installed next to each other to facilitate inter cabinet cabling.

NB3 HiPath 3750 cabinets can be either floor or shelf mounted (not wall mounted).

HiPath 3700 & 3750 V3.0 Vital Statistics

Main Distribution Frames (MDF) for HiPath 3750
Option 1
One wall mounted MDF required per cabinet (MDFU).
MDF size   370mm H * 330mm W * 130mm D
Option 2
Single wall mounted MDF supporting up 3 cabinets (MDFU-E).
MDF size   670mm H * 330mm W * 130mm D

NB HiPath 3700 uses RJ45 Patch Panels

Processor Board Details
V24 Ports   2 (1*9 way and 1*24 way D)
System memory   16Mbit Memory Module
System CPU   Motorola Coldfire
Maintenance modems   Integrated digital (ISDN) modem
                                     Optional V32 bis 14.4Kbits analogue modem

Operating Environment
Temperature   +5 to +40 degrees C
Relative humidity   5 to 80%
Absolute humidity   2 to 25 g H20/m3
Heat emission   850 kJ/h per cabinet (maximum)

NB It is recommended that the 19-inch rack should use fan assisted cooling.

Power Requirements
Rated input voltage   100/240V AC
Rated frequency   50/60 Hz
Power consumption   430 Watts per cabinet (maximum)

A clean dedicated mains supply is required terminating on a double 13 Amp socket (in accordance with IEEE regulations).
An additional 13 Amp socket is required for each expansion cabinet. Mains plugs to be fitted with a 13 Amp fuse.

HiPath 3700 & 3750 V3.0 Vital Statistics

UPS Battery Specifications

Each cabinet is supplied with an uninterrupted power supply requiring connection to an optional battery pack.

Battery capacity	7 Ampere hour	
Output voltage	48 Volts	
Battery backup times	10 to 20 extensions	110 minutes
	21 to 40 extensions	80 minutes
	41 to 68 extensions	60 minutes
	69 to 80 extensions	50 minutes

Earthing

HiPath 3700	The 19-inch rack must be earthed in accordance with the latest edition of IEE regulations.
HiPath 3750	A telecommunications earth of at least 2.5mm sq. is required.

Cable Specifications and Distances for TDM devices

Standard 0.5mm twisted pair cable.
Single pair required by both analogue and digital (optiPoint 500) telephones.
Maximum distance optPoint 500 - 500 metres (extended to 1000 metres with plug in PSU).
Maximum distance optiPoint 500 master to optiPoint 500 / analogue slave - 100 metres.
Maximum distance analogue device - 1000 metres.
Maximum distance S0 Bus - up to 150 metres point to multipoint. 600 metres point to point.
Maximum distance DECT base station - 1000 metres.

Trunk Specifications

Digital: BRI (ISDN 2E), PRI (ISDN 30E), (DASS)
Analogue: Loop calling Unguarded Clear /Loop Disconnect or DTMF signalling.

HiPath 3700 & 3750 V3.0 Vital Statistics

Extension Specifications

Digital: 2B + D using Siemens UPOE protocol
Analogue: DTMF / Timed Break Recall (TBR)

Tie Line Specifications

Digital: Siemens Cornet N and QSIG
Analogue: DC5 (E&M) 2 or 4 wire audio

CE Compliance

Electromagnetic Compatibility   EN 50082-1
DECT   ETS 300, 329. TBR 06

Safety
International   IEC 60950 + A1 + A2 + A3 + A4