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 H2O/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

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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
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 H2O/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 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**

- **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