

Private Branch Exchange

The Smart pi PBX (Private Branch Exchange) is an Audio Over IP gateway.

The Smart pi PBX has additional features including high quality compressed OPUS audio algorithms for use on Wide Area Networks where it is not possible to use linear audio such as Dante.

The Smart pi PBX ties all low bandwidth products together and monitors their connection status, this includes, Help and Information Points, the Smart pi DVA (for integrated Realtime automated messaging) and the Smart pi NAM for Wide Area support or paging from a customer's phone system.

This flexible design allows systems of any complexity and design to be seamlessly integrated using industry stand SIP protocols and networks including the internet and VPN tunnels.

Features

- Exceptional Audio Quality and Speech Intelligibility
- Modular system to ensure flexible installation options
- Very easy to use and can be configured by anyone via a simple web UI
- Front to back cooling ensuring maximum use of rack space, with embedded web server so no additional computer is required
- LDAP / Active Directory Security Control
- Built in Logic Engine can trigger and process calls from local and remote units via TCP/IP
- Highly reliable, each card manages itself and can be mirrored (N+1). The Nodes use a passive backplane to ensure there is no single point of failure
- Standards Based API using OCA / AES70 for control and integration

Screen Display Views

The screenshot shows the 'Extensions' management page in the Smart pi PBX Admin interface. The page has a navigation menu at the top with tabs for Admin, Applications, Connectivity, Dashboard, Reports, Settings, and Status. Below the menu, there are tabs for different extension types: All Extensions, Custom Extensions, DAHDI Extensions, IAX2 Extensions, SIP (chan_pjsip) Extensions, SIP (Legacy) (chan_sip) Extensions, and Virtual Extensions. The main content area features a table with columns for Extension, Name, CW, DND, FM/FM, CF, CFB, CFU, Type, and Actions. The table lists five extensions: 100 (SPI-XXX-YYY-ZZZ), 101 (Front Door), 200 (Emergency Help Point), 500 (Realtime Information Point), and 501 (Ticket Window). Each extension has a checkbox, a CW status (checked), and various feature flags (DND, FM/FM, CF, CFB, CFU) which are currently unchecked. The 'Actions' column contains edit and delete icons for each extension. At the bottom left of the table, it says 'Showing 1 to 5 of 5 rows'.

Extension	Name	CW	DND	FM/FM	CF	CFB	CFU	Type	Actions
100	SPI-XXX-YYY-ZZZ	✓	□	□	□	□	□	pjsip	[Edit] [Delete]
101	Front Door	✓	□	□	□	□	□	pjsip	[Edit] [Delete]
200	Emergency Help Point	✓	□	□	□	□	□	pjsip	[Edit] [Delete]
500	Realtime Information Point	✓	□	□	□	□	□	pjsip	[Edit] [Delete]
501	Ticket Window	✓	□	□	□	□	□	pjsip	[Edit] [Delete]

The screenshot shows the 'Status' page in the Smart pi PBX Admin interface. The page has a navigation menu at the top with tabs for Admin, Applications, Connectivity, Dashboard, Reports, Settings, and Status. The main content area displays five status cards for different extensions: Ext: 100 (SPI-XXX-YYY-ZZZ) is OFFLINE with 0 channels; Ext: 200 (Emergency Help Point) is OFFLINE with 0 channels; Ext: 500 (Realtime Information Point) is ONLINE with 0 channels; Ext: 101 (Front Door) is OFFLINE with 0 channels; and Ext: 501 (Ticket Window) is OFFLINE with 0 channels.

Extension	Name	Status	Channels
Ext: 100	SPI-XXX-YYY-ZZZ	OFFLINE	Channels: 0
Ext: 200	Emergency Help Point	OFFLINE	Channels: 0
Ext: 500	Realtime Information Point	ONLINE	Channels: 0
Ext: 101	Front Door	OFFLINE	Channels: 0
Ext: 501	Ticket Window	OFFLINE	Channels: 0

Connectivity

- Smart pi HLP Help and Information Points
- Smart pi NAM (with SIP option)
- Smart pi DVA (with SIP option)
- Most Corporate IP PBX's via SIP or IAX Trunks
- Most VoIP / SIP Providers via SIP or IAX Trunks