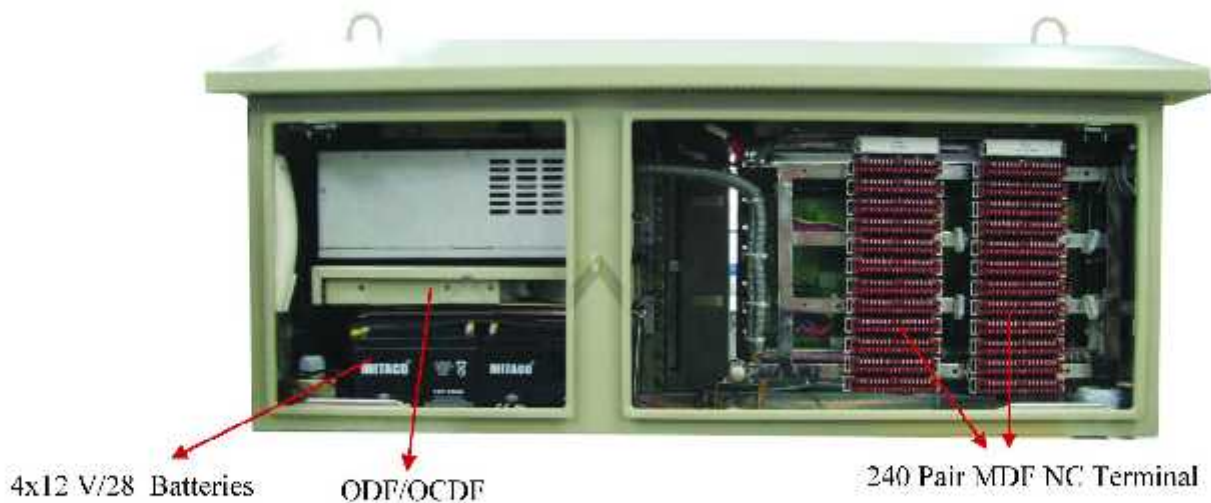
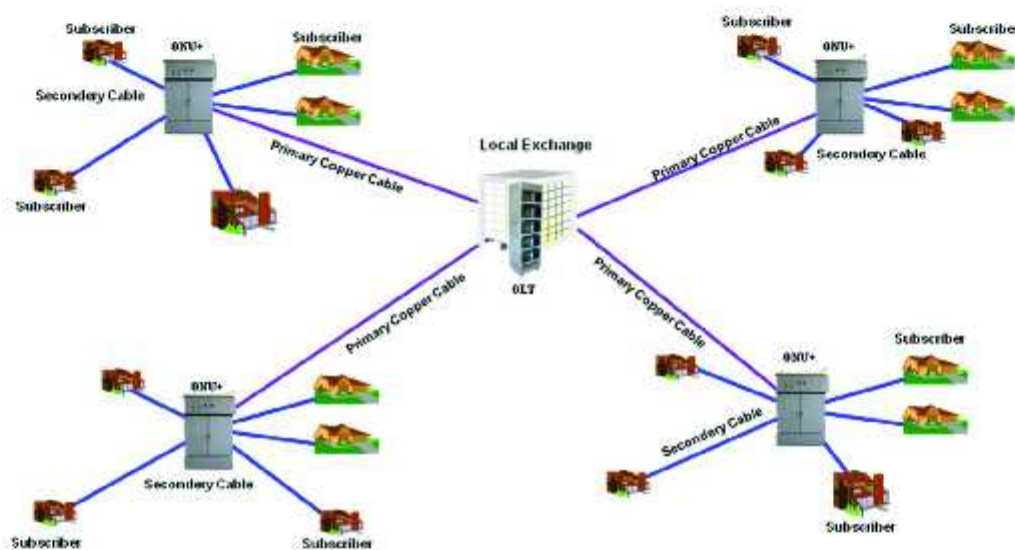


- This system is one of Azmoon's MSAN equipment which it has designed for installation over 2400P/3600PI copper cable distribution cabinets.
- The nominal capacity of this ONU is up to 240 POTS service or as a combination services up to 120 POTS+ 96 ADSL services.
- In Central Offices with condition of primary cable shortage, we recommend to use ONUplus for the amends this problem.
- 1 or 2 pair of existing primary cable can be used for trunk media from COT (with G.SHDSL transmission) to ONUplus.
- If it is possible to provide optical fiber cable for ONUplus, therefore with replacing STM 1/4 or FE card instead of G.SHDSL card in ONU, it can be supported different narrow-band services and board-band services (such as other MSAN's) to subscribers.



**Advantage of Installation ONUplus vs Installation ordinary ONU :**

- 1- No need to prediction connection between manhole and existing
- 2- No need to laying new copper cable to the existing copper cable distribution cabinets
- 3- No need to receive any license from municipality or other civil organizations
- 4- No need to outside survey for the choosing a suitable location for the installation It
- 5- No increase the sidewalks obstacle
- 6- It takes a very short time for the installation and the commissioning
- 7- The total cost project is low
- 8- In this case it can be used with maximum capacity for service to subscribers



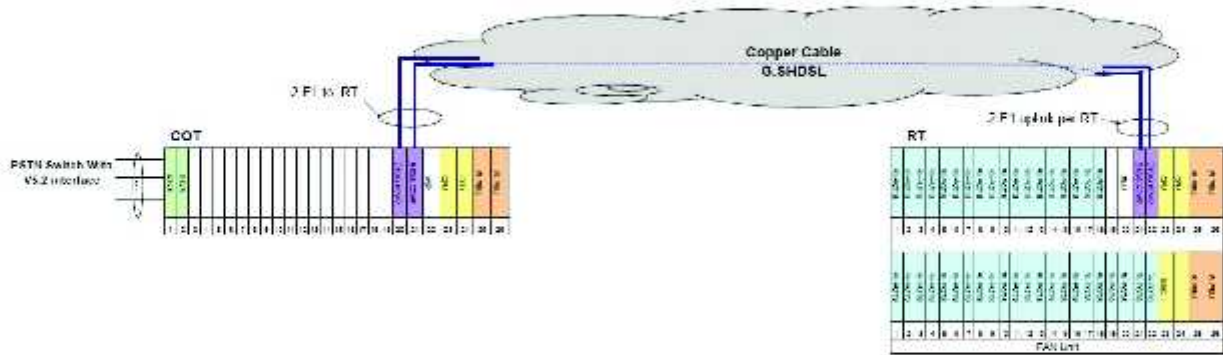
**Different parts of ONUplus Cabinet**

- 1- Mechanical parts
- 2- Access equipment
- 3- Power supply (Charger & Rectifier)
- 4- Backup Batteries
- 5- MDF Terminals
- 6- Air-circulation
- 7- ODF/ODF
- 8- Accessories parts

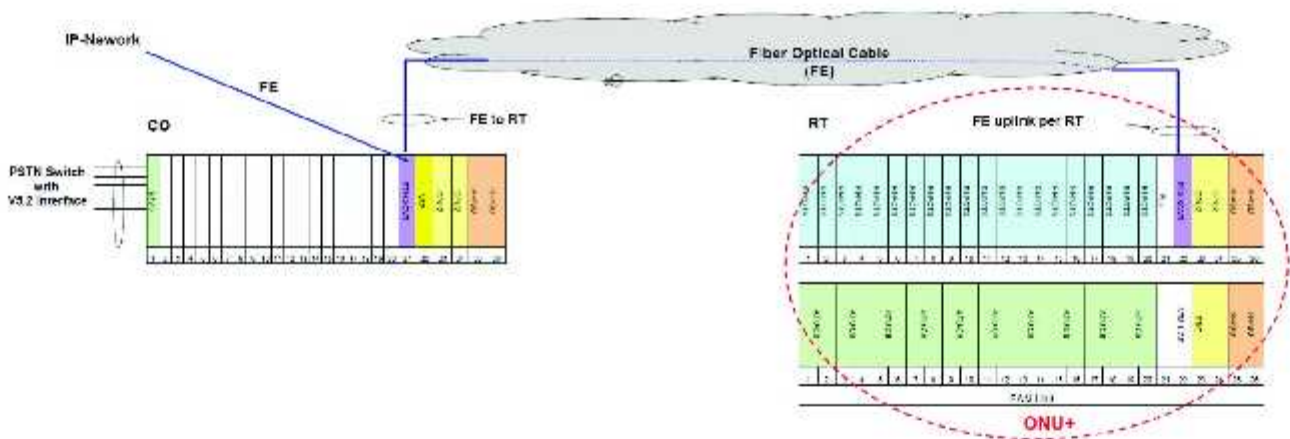


**Network Solutions with ONUplus for the offering Voice & ADSL Services**

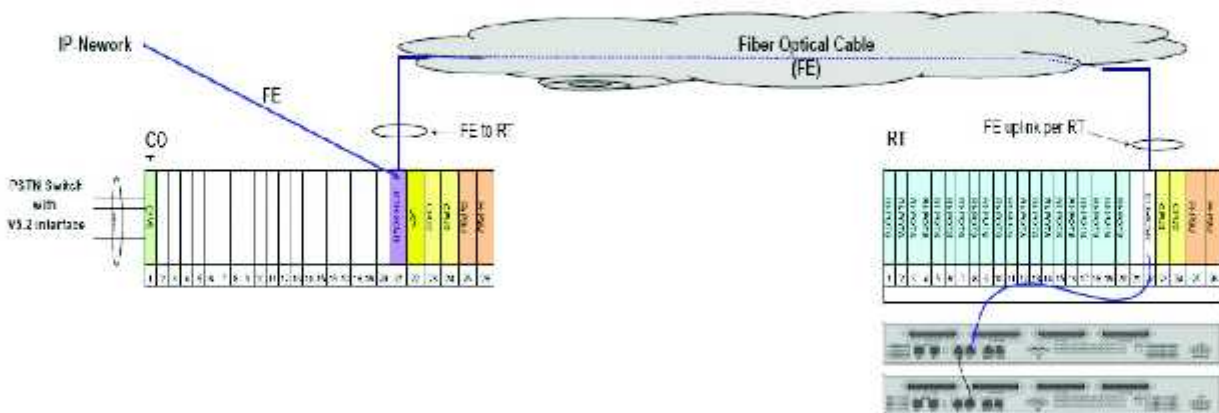
**Solution-1:** For the supporting Max. 240 POTS services with the using 2 Shelves & 2E1 Links (over 2 pairs copper wire) as a Trunk media (G.SHDSL) in CO with A/B wire or V5.2 Interfaces.



**Solution-2:** For the supporting Max. 120 POTS services & 80 ADSL with the using 2 Shelves & 1FE Link (over optical fiber cable) as a Trunk media in CO with V5.2 Interface.



**Solution-3:** For the supporting Max. 120 POTS services & 96 ADSL with the using 1 DLC Shelf & 2 IP-DSLAM & 1FE Link (over optical fiber cable) as a Trunk media in CO with V5.2 Interface.



**Note:** Also this company can be used other brands of DLC, MSAN or IP-DSLAM for the configuration inside of ONUplus cabinet according to subscriber's demand for Voice or Data services.



## Technical Specification

Item	Description
Cabinet	1235x515x550 (LxWxD) mm Net Weight: 60 kg / Full: 140 kg
Protection Class of the inner shell	IP 45
Material	Iron
Plates Diameter	2 mm
Coloration	Heat Sealed Paint
Color number	7052 - marie
Install	On Roof Of the Copper Cabinet
Heat Insulation in Roof	Urethane Urethane Sheet
Panel Density	35 - 40 kg/m <sup>3</sup>
Heat transfer coefficient times	0.023 W/M deg.c
Width Ladders from each other in Main Cabin	150 mm
Height Ladders in Main Cabin	355 mm
Operating temperature	-20 to +75 °C
Instrument	Switch levers door are S1K metal Rod with chromium galvanize - Plastic locks - Flat Lead Hinges
Passive With Fan Unit	Cooling
Nominal Voltage AC	110 Vac and 220 Vac Signal phase
Operating Voltage range	85 - 286 V ac
Frequency range	45 - 65 Hz
Current	4A(220Vac input; 54Vdc; 100% load) 11A(85Vac input; 60Vdc; 100% load)
Power factor	>0.97 (220Vac input; 54Vdc; 50% - 100% load) Meet EN61000-3-2 requirements
EMI	Meet IEC55022 requirements
Nominal Voltage DC	-54V dc
Voltage adjustable range	40 - 60V dc (float, equalize mode)
Rated current	10A( 00% load)
Maximum power consumption	750W

Option	Description	Qty
Shelf	For DDC system	2
Rectifier	20 - 25A/3U	1
Battery	12 - 28AH / 12V	4
Central MDI	With 16 pairs Module / moving Ladder	NC + 240
Surge Arrester	It's From Epsas Company that can protect until 100KA	2
DC/DC	12 Converter	1
Micro switch	For Control door's Alarm	2
I/O Ports	For Optic Fiber - Power & Voice Cables	3
Cooling Box	Part unit (2 fans) 48V DC	2

