

# TELESTE ACE 3

## 1.2 GHZ INTELLIGENT BROADBAND AMPLIFIER

ACE3 is an intelligent amplifier with one active output with a forward gain up to 44 dB. It offers high output level (CTB/CSO 116.5/118 dB $\mu$ V) and supports 1.2 GHz/204 MHz bandwidth. Remote monitoring and control is possible via either DOCSIS or HMS/CATVisor protocol.



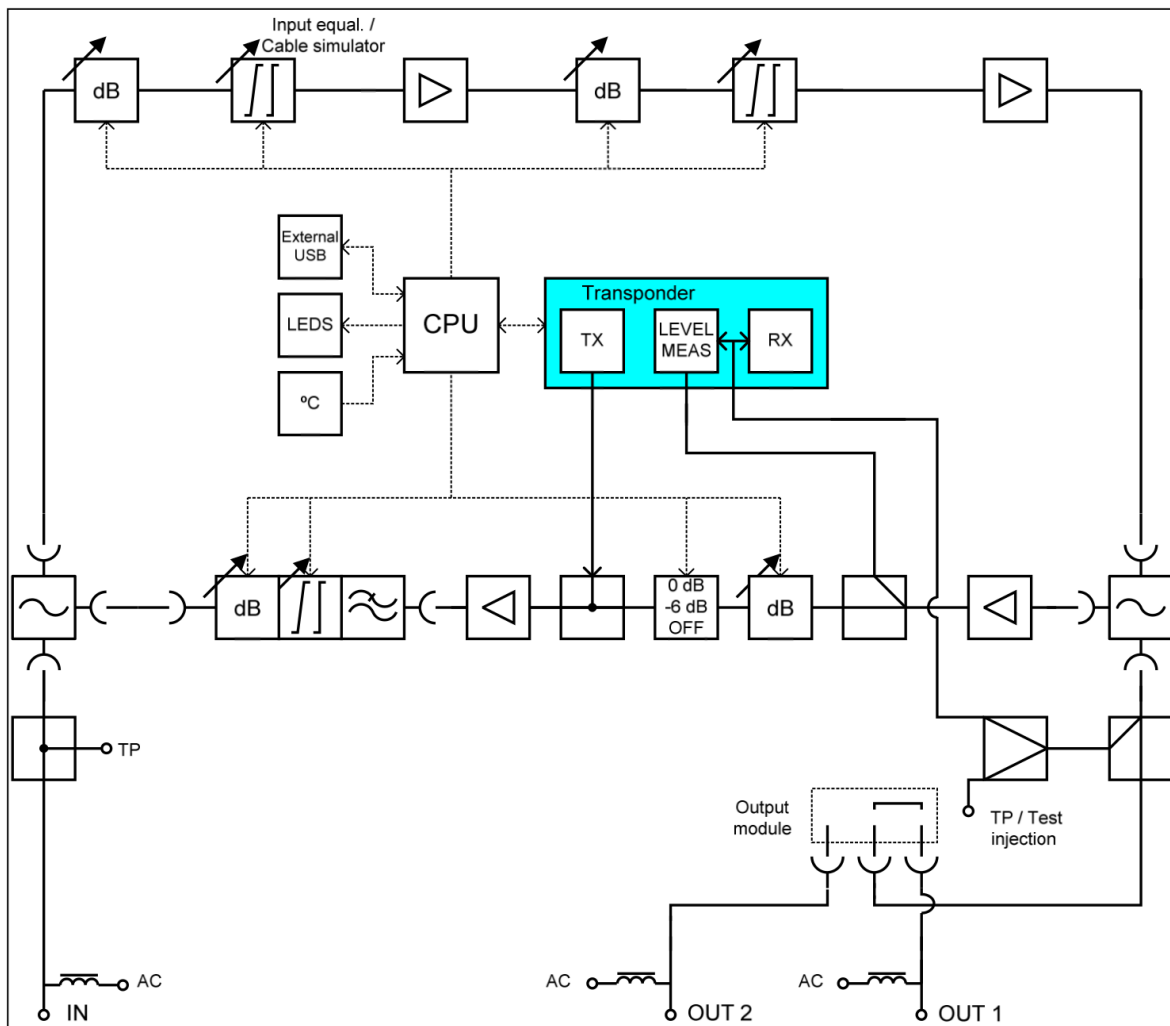
- Remote power supply with PFC
- Intelligent continuous adjustments
- External access to output test points
- Local control through external USB connection
- Intelligent cable simulator at input
- Excellent ESD and surge protection
- With a transponder plug-in: CATVisor / HMS or DOCSIS remote connection, Remote ingress switch control, ALSC with fully user programmable pilots, Downstream spectrum analyser, Upstream signal monitoring with automatic ingress control, True plug-and-play with single pushbutton alignment and Return path pilot generator

## SPECIFICATIONS

DOWNSTREAM SIGNAL PATH (VALUES WITH DIPLES FILTERS)		
Frequency range	MHz	85...1218
Return loss	dB	18
Maximum gain	dB	44
Input gain control	dB	-20...0
Input slope control	dB	-13...20
Input cable simulator	dB	-13
Interstage gain control	dB	-15...0
Nominal interstage slope	dB	13
Interstage slope control	dB	8...18
Pivot frequency selection	GHz	1.0/1.2
Flatness	dB	$\pm$ 0.5
Group delay	ns	2
Test point	dB	-20
Transponder connection	dB	-19
Noise figure	dB	8.5
Umax(112 QAM channels) @1.0 GHz	dB $\mu$ V	111.5
Umax(138 QAM channels) @1.2 GHz	dB $\mu$ V	108.5
CTB 41 channels	dB $\mu$ V	116.5
CSO 41 channels	dB $\mu$ V	118.0
UPSTREAM SIGNAL PATH (VALUES WITH DIPLEX FILTERS)		
Frequency range	MHz	5...204
Return loss	dB	18
Maximum gain	dB	28
Ingress switching	dB	0 / -6 / < -40
Gain control	dB	0...28
Slope control	dB	0...15
Flatness	dB	$\pm$ 0.5
Noise figure	dB	6.5

GENERAL		
Power consumption (65 / 230 V AC)	W	23
Supply voltage AC	V	27...65 / 40...90 / 205...255 V
Maximum current feed through	A	7.0 / port
Hum modulation	dB	70
Resistance for remote current	mΩ	25 / port
Input / Output connectors		PG11 (several adaptors available)
Test point connectors		F female
Local service port connector		USB mini-B
Dimensions (h x w x d)	mm	170 (200) x 230 x 90
Weight	kg	2.3
Operating temperature	°C	-40...+55
Class of enclosure		IP 54
Environmental (salt mist, cyclic)		IEC 60068-2-52, severity 1
Safety		EN60728-11 / EN60065
EMC		EN50083-2
ESD	kV	4
Surge	kV	6 (EN 60728-3)

## BLOCK DIAGRAM



## ORDERING INFORMATION

### ACE3 configuration map

	1		2			3	4	5	6			7
	1	2	1	2	3	1	1	1	1	2	3	1
ACE3			-			-		-				-

<b>1-1 Gain and housing</b> <b>A</b> 44 dB intelligent amplifier, normal lid <b>B</b> 44 dB intelligent amplifier, TP access through lid <b>C</b> 44 dB intelligent amplifier, ventilation hole closed	<b>4-1 Output module</b> <b>A</b> 0 dB (AC6120) <b>X</b> None
<b>1-2 Power supply</b> <b>A</b> Local powering, euro plug (230 VAC) <b>B</b> Remote powering with cable clamp (65 VAC) <b>C</b> Local powering, UK plug (230 VAC) <b>D</b> Remote powering with cable clamp (90 VAC)	<b>5-1 Transponder module</b> <b>D</b> ALSC+RIS module (AC6918) <b>E</b> Transponder and ALSC module (AC6992) <b>F</b> RIS module (AC6915) <b>G</b> DOCSIS transponder (AC6981) <b>X</b> None
<b>2-1 Input connection (first from left)</b> <b>A</b> PG11 <b>B</b> 5/8" <b>C</b> IEC <b>D</b> 3.5/12 <b>E</b> F	<b>6-1 Communication protocol / application software</b> <b>X</b> None <b>A</b> CATV/isor compatible <b>B</b> HMS/SNMP compatible <b>C</b> Customerspecific
<b>2-2 Output 2 connection</b> <b>A</b> PG11 <b>B</b> 5/8" <b>C</b> IEC <b>D</b> 3.5/12 <b>E</b> F <b>X</b> None (PG11sealing plug)	<b>6-2 Settings</b> <b>X</b> Factory default <b>A</b> Customerspecified (ECML file)
<b>2-3 Output 1 connection (first from right)</b> <b>A</b> PG11 <b>B</b> 5/8" <b>C</b> IEC <b>D</b> 3.5/12 <b>E</b> F	<b>6-3 Product keys (software features)</b> <b>X</b> None <b>C</b> Auto alignment, spectrum and ingress analyser, pilot generator
<b>3-1 Diplexers</b> <b>A</b> 65/85 MHz (2 x CXF065 + AC6254) <b>B</b> 85/105 MHz (2 x CXF085 + AC6255) <b>C</b> 204/258 MHz (2 x CXF204 + AC6256) <b>D</b> 204/258 MHz (2 x CXF204 + AC6257) <b>E</b> 65/85 MHz (CXF065 19 + CXF065 + AC6254) <b>F</b> 65/85 MHz (CXF065 10 + CXF065 + AC6254) <b>K</b> 204/258 MHz (CXF204+CXF204 19 + AC6257) <b>X</b> None	<b>7-1 Customer specific selections</b> <b>W</b> Customerspecific option <b>X</b> None

DOC0022968, Rev014