

<h2 style="margin: 0;">CHANGE REQUEST</h2>			Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.
25.223	CR	007	Current Version: 3.3.0
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team	
For submission to: RAN#9 <small>list expected approval meeting # here</small> ↑	for approval <input checked="" type="checkbox"/> for information <input type="checkbox"/>	strategic <input type="checkbox"/> non-strategic <input type="checkbox"/>	(for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc

Proposed change affects: (U)SIM ME UTRAN / Radio Core Network
(at least one should be marked with an X)

Source: Siemens AG **Date:** 27/06/2000

Subject: Gain Factors for TDD Mode

Work item: _____

Category:	F Correction <input checked="" type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input type="checkbox"/>	Release:	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input type="checkbox"/> Release 00 <input type="checkbox"/>
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(only one category shall be marked with an X)

Reason for change: Alignment with FDD Mode

Clauses affected: _____

Other specs affected:	Other 3G core specifications <input checked="" type="checkbox"/> Other GSM core specifications <input type="checkbox"/> MS test specifications <input type="checkbox"/> BSS test specifications <input type="checkbox"/> O&M specifications <input type="checkbox"/>	→ List of CRs: TS25.224CR019 → List of CRs: → List of CRs: → List of CRs: → List of CRs:
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Other comments: _____



<----- double-click here for help and instructions on how to create a CR.

6.5.1 Combination of physical channels in uplink

Figure 4 illustrates how the maximum of two different physical uplink channels are combined within one timeslot. Each complex-valued spread channel is separately weighted by a weight factor $\gamma_i G_i$ and combined using complex addition. [After combination of Physical Channels the gain factor \$\beta_j\$ is applied, depending on the actual TFC as described in \[10\].](#)

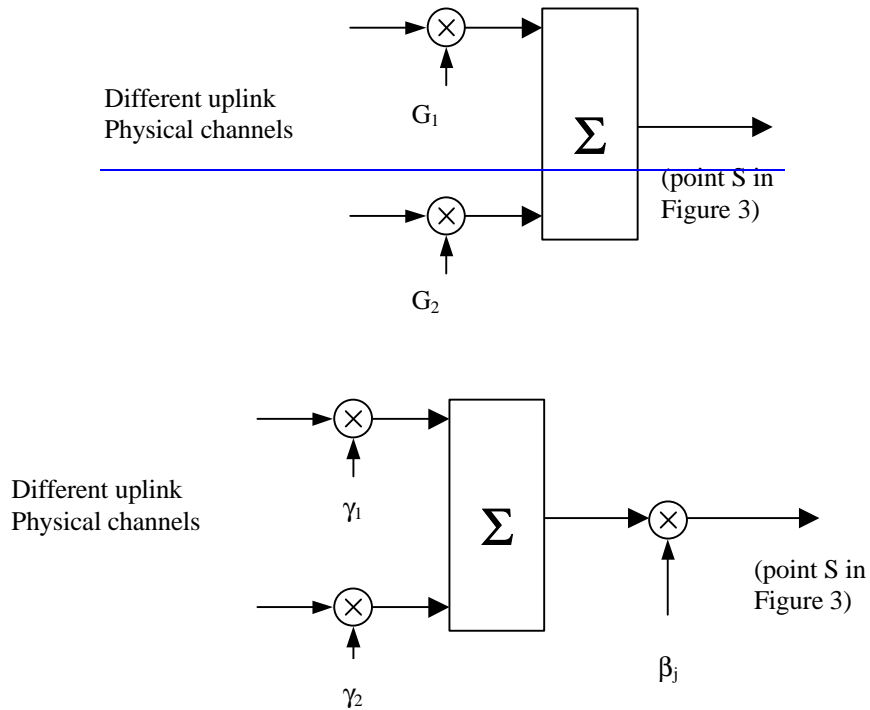


Figure 4: Combination of different physical channels in uplink

[The values of \$\gamma_i\$ are depending on the spreading factor SF of the corresponding DPCH:](#)

SF of DPCH	γ_i
16	1
8	$\sqrt{2}$
4	2
2	$2\sqrt{2}$
1	4

[The possible values for \$\beta_j\$ are listed in table below:](#)

Signalling value for β_j	Quantized value β_j
15	16/8
14	15/8
13	14/8
12	13/8
11	12/8
10	11/8
9	10/8
8	9/8

<u>7</u>	<u>8/8</u>
<u>6</u>	<u>7/8</u>
<u>5</u>	<u>6/8</u>
<u>4</u>	<u>5/8</u>
<u>3</u>	<u>4/8</u>
<u>2</u>	<u>3/8</u>
<u>1</u>	<u>2/8</u>
<u>0</u>	<u>1/8</u>